CHS

4
980/Index

Journal of The Chemical Society

Perkin Transactions I

CURRENT ISSUE

CHEMISTRY LIBRARY

RECEIVED
MAY 20 1981

THE LIBRARY
KANSAS STATE UNIVERSITY

Indexes
1980

JOURNAL
OF
THE CHEMICAL SOCIETY

PERKIN TRANSACTIONS I
Organic and Bio-organic Chemistry

LONDON: THE CHEMICAL SOCIETY
1980

COPYRIGHT RESERVED

Printed in Great Britain by
Richard Clay (The Chaucer Press), Ltd.,
Bungay, Suffolk

BEST COPY AVAILABLE

AUTHOR INDEX, 1980

Abe, Noritaka, 2692–9
Abou-Teim, Omar, 1841–6
Abuaan, Mohammed M., 995–1002
Acheson, R. Morrin, 78–80, 81–4 535–9, 579–85, 1185–93, 1773–8
Adachi, Masahiro, 1132–5
Adams, David R., 302–5
Adembri, Giorgio, 1667–70
Adlington, Robert M., 1076–9
Agawa, Toshio, 574–8, 1731–8
Ahad, John, 2445–9
Ahmed, Md. Giasuddin, 2383–6
Ahmed, S. Asghari, 2383–6
Aiba, Seiichi, 2122–5
Aizawa, Masahiro, 2793–6
Akasaka, Takeshi, 1257–61
Akhtar, M. Naseem, 1693–9
Akiyama, Masayasu, 2122–5
Akutagawa, Masamoto, 2300–3
Albert, Adrien, 2009–12, 2918–22
Albini, Angelo, 191–6, 2738–42, 2904–8
Aldridge, David C., 2134–5
Al-Hasan, Ziyad, 1800–3
Al-Hassan, Saieba S., 2645–56
Ali, Abid, 2700–4
Ali, S. Mubarik, 2093–7
Ali, Sadaquat, 249–56, 257–9
Allen, Anthony A., 733–7
Allen, Mark C., 1928–32
Allworth, Keith L., 1671–8
Al-Omran, Fatima, 1890–4
Amagaya, Sakae, 325–9
Ames, Donald E., 1384–9
Anderson, Colin D., 1230–2
Anderson, Patrick N., 1331–4
Annunziata, Rita, 2422–4
Aoyama, Hiromu, 2300–3
Aragozzini, Fabrizio, 675–6, 2549–53
Arrowsmith, John, 2851–5
Asada, Miyako, 325–9
Asai, Toyohira, 2755–62
Asensio, Gregorio, 1420–6
Ashcroft, Martyn R., 2021–5
Asherson, Janet L., 512–21, 522–8
Aznar, Fernando, 2732–7
Baba, Naomichi, 7–10
Bachi, Mario D., 11–13, 2228–32
Bahadur, Gulam A., 1688–92, 2870–7
Bailey, A. Sydney, 97–101, 1512–15, 1688–92, 2870–7
Baird, Kenneth J., 1820–5
Baitz-Gacs, Eszter, 2572–80
Bajwa, Joginder S., 481–6, 1019–24, 1859–61, 2146–51
Ballantine, James A., 1080–9
Banba, Fumio, 2122–5
Banerji, Julie, 553–5
Banham, Richard, 2445–9
Banks, Catherine H., 2287–93
Banks, Ronald E., 817–21
Bannister, Brian, 540–52
Baradarani, M. Medhi, 72–7
Baradarani, M. Mehdi, 1290–3
Barbarella, Giovanna, 1646–9
Barber, Jill, 2244–8
Barbier, Michel, 113–15, 1739–46
Bargurie, Moshe, 2670–7
Barker, Alan J., 633–8
Barlow, Michael G., 122–5, 129–31, 817–21, 1960–4, 2254–7, 2258–67, 2520–2, 2523–6
Barluenga, Jose, 1420–6, 2732–7
Barr, John J., 1147–9
Barrett, Anthony G. M., 237–9, 639–42, 665–71, 1076–9, 2184–90, 2191–5, 2272–7
Bartlett, Sheena, 1551–4
Barton, Derek H. R., 237–9, 639–42, 643–7, 665–71, 712–13 1124–31, 1212–17, 1650–3, 1654–7, 2184–90, 2209–12, 2272–7, 2657–64, 2665–9
Battersby, Alan R., 31–42, 43–51 1283–9
Bayomi, Said M. M., 2830–4
Beale, Michael H., 877–84, 885–91
Behnam, Basil A., 107–12
Behr-Papp, Agnes, 2572–80
Bell, A. Nicholas, 487–9
Bellanato, Juana, 1199–205
Beltrami, Hector, 2480–4
Bennett, David J., 1978–85
Bentley, Peter H., 2222–7
Beretta, M. Grazia, 2686–90
Berge, John M., 690–2
Bernardon, Claude, 2631–6
Bernassau, Jean Marie, 176–80
Berridge, John C., 2174–8, 2425–34
Bettinetti, Gian Franco, 191–6, 2904–8
Bezuidenhoudt, Barend C. B., 2179–83
Bilgic, Orhan, 522–8, 1233–9
Bin Bahari, Zakaria, 2851–5
bin Sadikun, Amirin, 1578–82
Bin Samsudin, M. Wahid, 1225–9
Bird, T. Geoffrey C., 750–5
Bittner, Magalis, 2842–4
Black, Robin M., 410–18
Blackburn, G. Michael, 1150–3
Blattner, Regine, 1523–7, 1535–9
Blazejewski, Jean Claude, 2845–50
Bloodworth, A. J., 2450–7
Blount, John F., 264–8
Bluthe, Norbert, 1747–51
Boehm, Peter, 27–30
Bondavalli, Francesco, 2626–30
Bonnett, Raymond, 490–4, 1706–10
Boonyarakvanich, Anongrat, 343–53
Booth, Brian L., 181–6, 2887–94 2894–900
Borthwick, Alan D., 2435–44
Bottomley, William E., 843–5
Bousquet, Jean Francois, 113–15
Bower, David J., 672–4
Bowman, Ralph E., 2126–33
Bowman, W. Russell, 1407–13
Boyd, Derek R., 1693–9, 2112–16
Boyd, Gerhard V., 843–5, 846–8
Bozzini, Silvano, 240–3
Bradshaw, A. Peter W., 741–3
Brandt, E. Vincent, 2179–83, 2463–9
Bratt, Jack, 648–56
Breiman, Ron, 11–13
Breytenbach, Jaco C., 1804–9
Bridgewater, Alan J., 556–62
Brimacombe, John S., 269–72, 273–6, 995–1002, 1800–3, 2054–60, 2061–4
Bringmann, Gerhard, 2657–64, 2665–9
Brohi, M. Ismail, 1384–9
Brooke, Gerald M., 102–6
Brown, David E., 129–31
Brown, Tom, 2310–15
Brundish, Derek E., 462–5, 1928–32
Bryce-Smith, Derek, 55–71
Bucciarelli, Maria, 2152–61
Buchan, Robert, 90–2
Buchanan, J. Grant, 2561–6, 2567–71
Buggle, Katherine, 1070–5
Buncel, Erwin, 2205–8
Bundle, David R., 297–301
Bunton, Clifford A., 2213–17
Burdon, James, 1726–30, 2494–6
Busby, Reginald E., 1427–30, 1431–5
Butler, Richard N., 744–9, 2218–21
Cainelli, Gianfranco, 2516–19
Calcagni, Anna, 440–3
Caldwell, A. Gordon, 495–505
Camargo, Catalina, 2077–80
Cambie, Richard C., 822–7, 2581–6
Campbell, Malcolm M., 766–74
Campos, Pedro J., 1420–6
Canonica, Luigi, 2686–90
Caranikas, Stephanos, 1965–70
Carman, Raymond M., 2134–5
Carmody, Maurice P., 2013–20
Carr, David, 2374–9, 2380–2
Carr, Richard M., 156–62
Carter, Stephen D., 388–94
Cartoon, Maureen E. K., 1603–6
Casida, John E., 728–32
Casiraghi, Giovanni, 1862–5
Casnati, Giuseppe, 1862–5
Castro, Bertrand, 381–4, 1940–3 2683–5
Cave, Richard J., 2093–7
Cavicchioni, Giorgio, 2249–53
Cawkill, Eric, 244–8
Ceccherelli, Paolo, 1924–7
Cerrini, Silvio, 809–16, 1499–506
Chacon-Fuertes, M. Encarnacion, 2561–6
Chakravarty, Jyotirmoy, 804–8
Chambers, David, 822–7
Chambers, Richard D., 426–8, 429–34, 435–9, 1551–4
Chandler, Malcolm, 1007–12, 2238–43, 2774–80
Chandra, Suliana, 1706–10
Chapleo, Christopher B., 1847–52, 2084–7, 2088–92, 2093–7
Chapleur, Yves, 381–4, 1940–3, 2683–5
Chapman, Andrew V., 2743–54
Chapman, David, 2398–404
Charalambides, Antonios A., 1706–10
Charles, Isabel, 1139–46
Charon, Daniel, 1971–7
Chatterjee, Asima, 553–5
Cheeseman, Gordon W. H., 1603–6
Chen, George C., 2287–93
Chermprapai, Amornari, 2901–3
Cheung, H. T. Andrew, 556–62, 2162–8, 2169–73
Chiacchio, Ugo, 1635–40
Chiaroni, Angele, 2196–9
Chimichi, Stefano, 1667–70
Chretien, Francoise, 381–4
Chrystal, Ewan J. T., 31–42
Cinquini, Mauro, 1646–9, 2422–4
Cipollini, Romano, 1901–3
Citerio, Luisa, 722–7
Clark, Nigel G., 244–8
Clark, Peter David, 677–85
Clarke, Kenneth, 677–85, 1029–37
Clarke, Peter J., 1614–17
Clayton, J. Peter, 1347–51, 1352–5
Coe, Paul L., 217–20
Cohylakis, Demetrios, 1290–3
Coles, Barrie, 2258–67, 2523–6
Colle, Roberto, 665–71
Collins, Ann, 1218–24
Collins, Peter M., 277–81, 779–86
Colombo, Lino, 136–40, 675–6, 2549–53, 2686–90
Colonna, Stefano, 1646–9, 2422–4
Compagnini, Anna, 1635–40
Conant, Robert, 2490–3
Connolly, Joseph D., 529–30
Contento, Michele, 2516–19
Cook, Lawrence S., 2392–7
Cook, Michael J., 2743–54
Cooper, Martin W., 1185–93, 1773–8
Cordell, Geoffrey A., 1090–7
Corsaro, Antonino, 1635–40
Cotterill, Phillip J., 2353–7
Cova, Bruno, 240–3
Cox, Ian R., 1773–8
Cox, Richard H., 2914–17
Coyle, John D., 93–6
Crabb, Trevor, A., 2535–41
Crabbe, Pierre, 2077–80, 2081–3
Craig, Raymond C., 766–74
Crawford, William, 2213–17
Crawley, Michael W., 122–5
Croce, Piero Dalla, 141–5
Crombie, Leslie, 1711–17
Crossland, Noelle M., 1583–6
Crump, Douglas R., 2597–607
Cully, Norman, 2213–17
Cunningham, Michael G., 744–9
Curini, Massimo, 1924–7
Curry, David J., 2435–44
Curry, Michael J., 1756–60
Cusack, Noel J., 2316–21
Cussans, Nigel J., 1650–3, 1654–7
Cutler, Alan T., 1176–84
Czochanska, Zofia, 2278–86
Dacrema, Lucia Maggi, 2738–42

Dadson, Mike, 1314–18
D'Angeli, Ferruccio, 2249–53
Danieli, Bruno, 601–6
Dao, Le H., 2408–16
Dasgupta, Rupak, 804–8
Date, Tadamasa, 163–9
David, Serge, 1262–6
Davies, David I., 302–5, 1578–82
Davies, Terry, 927–32
Dawes, Clive C., 643–7
Dawson, Philip J., 2535–41
Dean, Francis M., 1978–85, 1986–93, 1994–2000, 2049–53, 2937–42
Deberly, Alain, 2631–6
De Bernardi, Maria, 221–6
Degl'Innocenti, Alessandro, 1667–70
De Jesus, Amelia E., 52–4
Del Pra, Antonio, 2249–53
De Luca, Giorgio, 1901–3
Denniff, Phillip, 2637–44
Dennis, Nicholas, 331–42, 343–53, 1176–84
Depres, Jean Pierre, 2081–3
De Sarlo, Francesco, 385–7
Doherty, George O. P., 1782–7
Donnelly, Dervilla M. X., 2065–9, 2196–9
Donnelly, John A., 1299–305
Dorgan, Roderick J. J., 938–42
Dowlatshahi, Hossein, 1603–6
Dowlatshahi, Hossein A., 331–42
Drey, Charles N. C., 378–80
Durant, Graham J., 2310–15
Durrani, Aziz A., 1658–66
Dust, Julian M., 2408–16
Dutta, Phanindra Chandra, 2511–15
Dvortsak, Peter, 227–32
Ebata, Tsutomu, 2105–11
Ecoto, Jules, 1747–51
Edgar, Alan R., 2567–71
El-Fekky, Teymour A., 181–6
El-Hamamy, Ahmad A., 1671–8 2371–3
Elsworth, John F., 1795–9
Elvidge, John A., 311–13
Emke, Alice, 1779–81
Entwistle, Ian D., 27–30
Ewing, David F., 677–85
Fabrissin, Silvio, 686–9
Farnsworth, Norman R., 1090–7
Fasani, Elisa, 2738–42
Fatutta, Silvana, 686–9
Faull, Alan W., 2587–90
Fedeli, Walter, 809–16, 1499–506
Feit, Ben Ami, 1267–9
Ferezou, Jean Pierre, 113–15, 1739–46
Ferguson, George, 1782–7, 2445–9
Ferone, Robert, 2645–56
Ferreira, Daneel, 1003–6, 1025–8 1540–3, 2856–65
Ferreira, Margarida A., 249–56
Ferrier, Robert J., 1523–7, 1528–34, 1535–9, 2762–7, 2767–73
Ferris, Michael J., 78–80, 579–85
Ferrito, Victor, 1080–9
Fetizon, Marcel, 1747–51
Field, Douglas J., 714–21, 1909–15
Fielding, Harold C., 1551–4
Fields, Roy, 487–9
Filira, Fernando, 2249–53
Finch, Mark A. W., 1847–52, 2084–7, 2093–7
Fischer, Gerhard W., 362–71, 1176–84
Fisher, Raymond, 406–9
Fitzpatrick, Leigh, 85–9
Fleming, Ian, 1493–8, 2485–9
Fletcher, Ian J., 1176–84
Foglio, Maurizio, 233–6, 643–7
Foldesi, Andras, 699–704
Foo, Lai Yeap, 2278–86
Forbes, Craig P., 906–10
Forni, Arrigo, 2152–61
Forrester, John, 55–71, 2425–34
Foulger, Brian, 55–71
Foulger, Brian E., 2425–34
Fousseret-Dodane, Evelyne, 1–6
Fox, William Richard, 1029–37
Franceschi, Giovanni, 643–7
Francheschi, Giovanni, 233–6
Franks, Stephen, 2233–7
Fredericks, Peter M., 750–5
Frejd, Torbjoern, 1390–2
Frew, Andrew J., 1245–50, 1251–6
Fringuelli, Francesco, 176–80
Fronza, Giovanni, 221–6
Fuji, Kaoru, 1066–9
Fujita, Eiichi, 1066–9, 2470–3
Fujiyoshi, Masamitsu, 466–72
Fukumoto, Keiichiro, 1607–13
Funabashi, Masuo, 14–19
Furukawa, Naomichi, 1257–61
Furukawa, Yuji, 2613–16
Gabetta, Bruno, 601–6
Gadaginamath, Guru S., 2112–16
Gallagher, Peter T., 2358–61, 2362–70
Galliani, Guido, 828–32
Garanti, Luisa, 116–18
Garegg, Per J., 2866–9
Gasic, Miroslav J., 1679–81
Gaskin, Paul, 885–91
Gaston, John L., 1136–8, 2294–9
Gennari, Cesare, 136–40, 675–6, 2549–53, 2686–90
Ghatak, Usha Ranjan, 804–8, 2881–6
Ghosh, Subrata, 804–8, 2881–6
Giam, Choo Seng, 2070–6
Gigg, Roy, 738–40, 2490–3
Gilbert, Andrew, 55–71, 869–76, 1118–23, 1218–24, 1225–9, 1314–18, 1393–9, 1761–8, 2174–8, 2425–34, 2531–4
Gill, G. Bryon, 410–18
Gill, Harpal S., 1726–30, 2494–6
Gioia, Bruno, 722–7
Glotter, Erwin, 531–4, 1769–72, 2700–4
Glover, Edward E., 959–62
Glover, Stephen A., 1338–44
Golder, Walter S., 422–5
Goldhill, Jon, 1493–8
Gomez-Sanchez, Antonio, 1199–205
Goodson, John J., 2721–7
Gorst-Allman, Charles P., 2474–9
Gotoh, Haruo, 574–8
Gottlieb, Hugo E., 531–4, 2700–4
Gould, Ken J., 1834–40
Gowda, Gopala, 1516–22
Graphakos, Basil J., 1345–6
Gratton, Sergio, 240–3
Graziano, M. Liliana, 1955–9
Greco, Claude V., 20–6
Greenhalgh, Colin W., 2923–32
Greenwood, John, 2346–52
Griffiths, David., 2608–11
Griffiths, David, 1240–4, 2587–90
Grimshaw, James, 657–60
Gronowitz, Salo, 1390–2
Gross, Bernard, 381–4
Grove, John Frederick, 1795–9, 2878–80
Grundon, Michael F., 1136–8, 1294–8, 1820–5, 2294–9
Gunzberg, Gideon, 531–4
Gupta, B. Dass, 2021–5
Gupta, Paul, 277–81
Hacker, Nigel P., 1834–40
Haensel, Rudolf, 775–8
Hafiz, Muahtaq, 1700–5
Hagishita, Sanji, 950–8
Hagiwara, Hisahiro, 963–77
Halim, Haroen, 2331–7
Hall, Alida J., 1025–8
Hall, D. Muriel, 107–12
Hall, Richard H., 126–8
Hallberg, Anders, 1390–2
Hamaguchi, Masashi, 2205–8
Hamblin, Michael R., 1294–8
Hamilton, Andrew D., 1283–9
Hankovszky, H. Olga, 699–704
Hanna, Rod, 273–6
Hansen, Jan J., 1826–33
Hansen, Per Egil, 1627–34
Hanson, James R., 741–3, 933–7 1306–10, 1311–13, 1381–3, 2581–6
Hara, Hiroshi, 1165–8, 1169–75
Hardy, Christopher R., 506–11, 938–42
Harger, Martin J. P., 705–11
Harlow, Richard L., 354–61, 1870–8
Harris, C. John, 495–505, 2497–502
Harrison, Charles R., 1592–4
Harrison, David M., 1294–8
Hart, Reinhold J., 1904–8
Hart, Terence W., 1544–50
Hartley, David, 1139–46
Hartley, Frank R., 2233–7
Haslett, Reginald J., 657–60
Haszeidine, Robert N., 122–5, 129–31, 314–24, 372–7, 406–9, 487–9, 927–32, 1544–50, 1960–4, 2254–7, 2258–67, 2520–2, 2523–6, 2887–94
Hata, Tsujiaki, 306–10
Hatakeyama, Susumi, 457–61
Hauck, Albert E., 2070–6
Hawkins, David, 2387–91
Hayakawa, Masato, 419–21
Hayashi, Makoto, 902–5
Haynes, Norman B., 1782–7
Heath, Peter, 1314–18
Henley-Smith, Peter, 614–22
Herbin, G. Antonio, 1978–85, 1986–93
Hermecz, Istvan, 227–32
Hesabi, Massoud M., 1671–8, 2371–3
Hesse, Robert H., 712–13
Hickmott, Peter W., 2383–6
Hideg, Kolmon, 699–704
Hill, John, 1671–8, 2371–3
Hirakawa, Kioyoichi, 1944–9
Hirakawa, Kiyoichi, 2835–41
Hirano, Yutaka, 2503–6
Hirao, Ken-ichi, 163–9
Hodge, Philip, 1592–4
Hoenel, Michael, 1933–9
Hofeditz, Wolfgang, 2691–2
Hooper, John W., 2435–44
Horn, Peter, 2914–17
Hornby, John C., 817–21
Horsewood, Peter, 1587–91
Horvath, Karoly, 2554–60
Hosaka, Machiko, 1169–75
Hoshino, Osamu, 1165–8, 1169–75
Houghton, Leonard E., 1994–2000
Houghton, Roy P., 756–8
Howard, Colin C., 852–7
Howden, Merlin E. H., 672–4, 1904–8
Howes, P. D., 1038–44
Howes, Peter D., 762–5
Huddle, Penelope A., 2617–25
Hull, Roy, 1240–4, 2587–90, 2608–11, 2717–20
Hull, William E., 1381–3
Hunt, Eric, 2222–7
Hurst, Jim, 2398–404
Hursthouse, Michael B., 490–4
Hutchison, Roderick J., 2567–71
Hylands, Peter J., 2933–6
Ichikawa, Kohei, 1066–9
Ichinose, Isao, 1051–6
Iddon, Brian, 648–56, 1370–80, 2358–61, 2362–70, 2374–9, 2380–2
Iesce, M. Rosaria, 1955–9
Ihara, Masataka, 629–32, 1607–13
Ikeda, Masazumi, 2830–4
Ikekawa, Nobuo, 2503–6, 2507–10
Imada, Satoshi, 1866–9
Imai, Jiro, 911–18, 919–26
Inagaki, Yoshio, 1365–9
Inamoto, Naoki, 1365–9
Ingleson, David, 1150–3
Inoue, Hideo, 911–18
Inouye, Yuzo, 7–10
Iori, Mitsuo, 2693–9
Iqbal, Mohammad, 1427–30
Irgolic, Kurt J., 2287–93
Iriarte, Jose, 2077–80
Ishido, Yoshiharu, 563–73
Ishiguro, Masaji, 2503–6, 2507–10
Ishii, Hisashi, 902–5
Iskander, George M., 2405–7
Ivanics, Jozsef, 2572–80
Iwakuma, Takeo, 163–9
Jaccarini, Victor, 1080–9
Jackson, Richard A., 1207–11
Jacquemin, Henry, 2065–9
Jain, Komal C., 1788–95
James, Kevin J., 1136–8
Jansen, Robert B., 1841–6
Jaxa-Chamiec, Albert A., 170–5
Jayaram, Chandra, 2851–5
Jemison, Robert W., 1436–49, 1450–7, 1458–61, 1462–72
Jerina, Donald M., 1693–9, 2112–16
Jessep, Michael A., 1319–23, 1324–30
Jewers, Kenneth, 1614–17
Jiricny, Josef, 1487–92
Joffe, Abraham Z., 2914–17
Johnson, Martin R., 586–600
Johnson, Michael D., 2021–5
Johnson, Robert S., 2049–53
Johnstone, Robert A. W., 27–30
Jones, David W., 714–21, 1909–15
Jones, Ewart R. H., 750–5
Jones, Haydn F., 1614–17
Jones, John H., 858–64

Jordaan, Amor, 126–8
Josephson, Staffan, 297–301
Joule, John A., 72–7, 1290–3
Kadir, Kamaliah, 2304–9, 2728–31
Kaftory, Menahem, 2670–7
Kagaya, Seiko, 2801–4
Kametani, Tetsuji, 629–32, 759–61, 1607–13, 2793–6, 2801–4, 2805–7
Kanazawa, Keiko, 473–80
Kano, Shinzo, 2105–11
Karhu, Matti, 1595–8
Kashima, Choji, 607–10, 1599–602, 1866–9
Kasturi, Tirumalai R., 448–56
Katakai, Ryoichi, 2808–11
Kato, Akira, 607–10
Kato, Haruo, 419–21
Kato, Kuniki, 1618–21
Kato, Tadahiro, 1051–6
Katoh, Akira, 1599–602
Katritzky, Alan R., 331–42, 343–53, 354–61, 362–71, 849–50, 865–8, 1176–84, 1345–6, 1870–8, 1879–87, 1888–9, 1890–4, 1895–900, 2458–62, 2480–4, 2554–60, 2743–54, 2851–5, 2901–3
Katsube, Yukiteru, 574–8
Kaura, Arun C., 388–94
Kawabata, Kohji, 2470–3
Kawamura, Etsuko, 2693–9
Kawasaki, Tomomi, 1132–5
Kelly, Anthony H., 132–5
Kelly, David R., 852–7, 1583–6
Kemp, John E. G., 690–2
Kemp, William, 2812–17
Kennewell, Peter D., 170–5, 2542–8
Kenyon, Robert F., 1578–82
Khan, Jamil A., 2450–7
Khan, Mohammad A., 1427–30, 1431–5
Khan, Mohammad R., 1427–30, 1431–5
Khan, Naeem, 1592–4
Khan, Shafiq A., 2691–2
Kher, Anil, 2112–16
Kigawa, Yoshio, 1607–13
Kiguchi, Toshiko, 197–202, 203–7, 208–11
King, Trevor J., 249–56, 1347–51, 1352–5
Kinoshita, Masayoshi, 2787–92
Kirby, Gordon W., 119–21, 1587–91
Kirk, David N., 176–80, 787–803, 1810–19, 2591–6, 2597–607, 2818–29
Kirkwood, Paul S., 885–91, 2117–21
Kirson, Isaac, 531–4, 2700–4
Kise, Masahiro, 2830–4
Kita, Yasuyuki, 1132–5
Kitson, Trevor M., 1724–5
Klyne, William, 176–80
Kneen, Geoffrey, 1711–17
Knights, Steve G., 1306–10, 1311–13
Knott, Andrew R. D., 81–4
Knott–Hunziker, Vroni, 2322–9
Kobayashi, Yoshiro, 661–4, 2755–62
Kocienski, Philip J., 897–901, 1045–50, 1400–4
Kodama, Tsutomu, 963–77
Kohda, Akira, 947–9
Kollmann, Albert, 113–15
Kondo, Yoshikazu, 911–18, 919–26
Koshiro, Akira, 293–6
Kosti, Sonia, 2670–7
Kotera, Keishi, 163–9
Kovacs, Gabor, 2572–80
Krestonosich, Stefan, 1393–9, 2531–4
Krinsky–Feibush, Pnina, 1769–72
Krogsgaard–Larsen, Povl, 1826–33
Kulick, Russell J., 2645–56
Kumadaki, Itsumaro, 661–4, 2755–62
Kundu, Nitya G., 1920–3
Kuriyama, Kaoru, 950–8
Kurzer, Frederick, 733–7
Kusabayashi, Shigekazu, 1950–4, 2909–13
Kusaki, Kiyomi, 473–80
Kusano, Yumiko, 1622–5
Laali, Khosrow, 2887–94
Labbe, Cecilia, 529–30
Lai, Chi Hung, 444–7
Laird, Trevor, 1436–49, 1450–7, 1458–61, 1473–6, 1477–86, 2033–48
Lamotte, Genevieve, 2657–64
Langridge, John R., 129–31, 2520–2
Lanteri, Silvia, 2626–30
Latham, David W. S., 1139–46
Lazare, Sylvain, 1747–51
Leaver, Derek, 1319–23, 1324–30
Lee, Cheuk Man, 2458–62
Lee, Thomas V., 2084–7
Lepine, Marie Christine, 1262–6
Lester, David J., 1212–17, 2209–12
Letcher, Roy M., 535–9
Lewis, Norman J., 1270–8, 1279–82
Lex, Laszlo, 699–704
Ley, Steven V., 643–7, 1212–17, 1650–3, 1654–7, 2209–12
Lhommet, Gerard, 1345–6
Lillie, Terence J., 1161–4
Lindley, Andrew A., 1551–4
Lindley, John M., 982–94, 2387–91
Lindsay, Barry G., 822–7
Lisini, Adriana, 240–3
Liso, Gaietano, 849–50
Livingstone, Daniel B., 2645–56
Liz, Ramon, 2732–7
Locksley, Harry D., 2331–7
Logemann, Fatma I., 2316–21
Logue, J. N. Derry, 1294–8
Low, John N., 995–1002
Lowe, Gordon, 2026–8, 2029–32
Lucas, David J. M., 81–4
Lucente, Gino, 809–16, 1499–506
Luh, Tien–Yau, 444–7
Lunt, Edward, 849–50, 1879–87
Lythgoe, Basil, 892–6, 897–901, 1045–50, 1400–4, 1405–6
McDonald, Edward, 837–42, 1104–8, 1283–9
McGrath, J. Aidan, 1294–8
Mack, Arthur G., 648–56, 1370–80, 1682–7
Mackay, Donald, 2408–16
Mackenzie, Grahame, 2304–9
MacKenzie, Neil E., 2923–32
Macleod, Ian, 2637–44
MacMillan, Jake, 877–84, 885–91, 1270–8, 1279–82, 2117–21
McMurry, T. Brian H., 1516–22
McNab, Hamish, 2200–4
McOmie, John F. W., 1834–40, 1841–6
McRobbie, Ian M., 982–94, 2387–91
Magnus, Philip D., 643–7
Maguire, Maureen, 1294–8
Malone, Anna M., 440–3
Maji, Santosh Kumar, 2511–15
Majima, Tetsuro, 2705–8
Makino, Taketoshi, 7–10
Malek, Farideh, 1207–11
Malherbe, Maria, 126–8
Malone, John F., 2112–16
Malusa, Noelia, 686–9
Mamaghani, Manouchehr, 817–21
Manabe, Osamu, 1622–5
Mancera, Manuel, 1199–205
Manchand, Percy S., 264–8
Manescalchi, Francesco, 2516–19
Manna, Sukumar, 555–5
Mansour, El Sayed S., 2933–6
Martinelli, Ernesto M., 601–6
Maruyama, Kazuhiro, 1414–19
Masi, Paolo, 233–6
Mataka, Shuntaro, 2417–21
Matharu, Saroop S., 2542–8
Mather, Agnes M., 269–72, 273–6
Mathieson, David W., 1782–7
Matkin, David A., 1978–85, 1986–93
Matsukiyo, Shigeo, 1414–19
Matsushita, Yoshihiro, 1109–13
Matsuzaki, Narihide, 1731–8
Matthews, Raymond S., 102–6, 435–9
Mazza, Fernando, 809–16, 1499–506
Meakins, G. Denis, 750–5
Meegan, Mary J., 2065–9
Mehta, Jitendra R., 20–6
Melamed, Uri, 1267–9
Mellerio, Giorgio, 221–6
Memon, Janmohammed J., 2331–7
Mengech, Annalee S., 1800–3, 2054–60
Merendi, Cosetta, 2549–53
Merlini, Lucio, 775–8
Meszaros, Zoltan, 227–32
Meth–Cohn, Otto, 982–94, 2387–91
Meunier, Bernard, 2136–40
Michalska, Maria, 354–61
Michalski, Jan, 833–6
Middleton, Nigel W., 1688–92
Midgley, John M., 1779–81
Mikami, Kazutoshi, 419–21
Miller, Barry W., 2597–607, 2818–29
Millet, George H., 2743–54
Minami, Toru, 1731–8
Mincione, Enrico, 2774–80
Minoli, Giovanna, 191–6, 2904–8
Mitchell, William L., 643–7
Miura, Masahiro, 1950–4, 2909–13
Miyoshi, Haruo, 1098–103
Molines, Huguette, 1114–17
Mombelli, Luisa, 1283–9
Monteil, Rene L., 843–5, 846–8
Moore, Richard B., 2134–5
Moran, Daniel, 487–9
Moretti, Irene, 2152–61
Morgan, Alan D., 756–8
Morgan, Alan R., 733–7
Mori, Kenya, 978–81
Morimoto, Akira, 1109–13
Morpain, Claude, 1–6
Morris, Gerard J., 2218–21
Morris, Timothy M., 2272–7
Motherwell, Robyn S. Hay, 2657–64
Motherwell, William B., 1124–31, 2657–64, 2665–9
Motoyoshiya, Jiro, 574–8
Mtetwa, Eli, 378–80
Mukai, Chisato, 2830–4
Mukherjee, Debabrata, 2511–15
Mukhopadhyaya, Sunil Kumar, 2511–15
Munro, David P., 1718–23
Murayama, Eigoro, 947–9
Murphy, William S., 1555–66, 1567–77, 2678–82
Murray, Keith W., 1960–4
Murray–Rust, Peter, 1080–9
Musco, Alfredo, 693–8
Musgrave, Oliver C., 90–2, 1161–4
Mussatto, Maria Cristina, 260–3
Nagao, Yoshimitsu, 2470–3
Nagubandi, Sreemulu, 237–9
Naito, Takeaki, 197–202, 203–7, 208–11, 212–16
Nakagima, Toru, 2787–92
Nakahara, Yuji, 902–5
Nakano, Masanori, 2755–62
Nakazaki, Nobuo, 563–73
Nakazawa, Sho, 1944–9
Narisano, Enrica, 136–40
Nay, Barry, 611–13
Nayyir–Mashir, Rassoul, 1994–2000
Neill, John D., 1693–9
Nelson, Carolyn, 2169–73
Nemoto, Hideo, 759–61, 1607–13, 2805–7
Nemoto, Hido, 2793–6
Nesi, Rodolfo, 1667–70
Newman, Roger H., 2278–86
Newport, Graham L., 93–6
Newton, Roger F., 586–600, 852–7, 1583–6, 1847–52, 2013–20, 2084–7, 2088–92, 2093–7, 2346–52
Nicoletti, Marcello, 43–51
Ninomiya, Ichiya, 197–202, 203–7, 208–11, 212–16
Nishijima, Makoto, 574–8
Nishio, Takehiko, 607–10, 1866–9
Nishiwaki, Tarozaemon, 2693–9
Nishizawa, Rinzo, 1618–21
Niwaguchi, Tetsukichi, 902–5
Nojima, Masatomo, 1950–4, 2909–13
Nolte, Magriet J., 1057–65
Noori, Ghazi F. M., 181–6, 2894–900
Norman, Richard O. C., 156–62
Norris, Albert R., 2205–8
Nosaka, Toshikazu, 2835–41
Nov, Eliahu, 2781–6
Nozoe, Shigeo, 919–26
Nunozawa, Tetsuji, 7–10
Oae, Shigeru, 1257–61
Obo, Walter G., 372–7
O'Callaghan, Conor N., 1335–7
Ochiai, Michihiko, 1109–13
Oda, Junichi, 7–10
Ogasawara, Kunio, 457–61
Ogawa, Masashi, 1165–8
Ogawa, Shojiro, 2527–30
Ogihara, Yukio, 325–9

Ogoshi, Hisanobu, 1641–5
O'Hanlon, Peter J., 1352–5
Ohashi, Mamoru, 2613–16
Ohshiro, Yoshiki, 574–8, 1731–8
Ojima, Juro, 466–72, 473–80
Okano, Masaya, 1098–103
Okazaki, Kei, 563–73
Okazaki, Renji, 1365–9
Ollis, W. David, 1436–49, 1450–7 1458–61, 1462–72, 1473–6, 1477–86, 2033–48
Omote, Yoshimori, 607–10, 2300–3
O'Reilly, Joseph, 2196–9
Orere, Daniel M., 1487–92
Orger, Brian H., 55–71
Orlek, Barry S., 2322–9
Osborne, Neal F., 146–9, 150–5
Ostoui, Moosa T., 2933–6
O'Sullivan, W. Ivo, 1194–8
Oxford, Alexander W., 1139–46
Pac, Chyongjin, 2705–8
Paglietti, Giuseppe, 81–4
Pakulski, Marek, 833–6
Palmisano, Giovanni, 601–6
Parfitt, Robert T., 2374–9, 2380–2
Park, B. Kevin, 2937–42
Parrick, John, 132–5, 506–11, 938–42, 1427–30, 1431–5
Parsons, Ian W., 1726–30, 2494–6
Parvathi, Shankaranarayana, 448–56
Pascard, Claudine, 553–5, 2136–40
Patel, Ranjan C., 849–50, 1888–9 1890–4, 2901–3
Paterson, Thomas McC., 633–8
Patil, Vemanna D., 1853–8
Pattenden, Gerald, 1711–17
Payne, J. J., 1038–44
Peach, Josephine M., 1688–92
Pearce, Andrew, 2485–9
Pearson, Anthony J., 395–9, 400–5, 2238–43, 2774–80
Pechet, Maurice M., 712–13
Peck, Leonard W., 959–62
Pellicciari, Roberto, 1924–7
Pelter, Andrew, 775–8, 1080–9
Penglis, Anna A. E., 2490–3
Peppard, Terence L., 311–13
Perold, Guido W., 2617–25
Perry, David H., 1834–40, 1841–6
Photaki, Iphigenia, 1965–70
Phull, Gurjeet S., 1507–11
Pianka, M., 1038–44
Pianka, Max, 762–5
Piatak, David M., 1679–81
Pietra, Silvio, 2904–8
Pinder, A. Reginald, 1752–5
Pinnen, Francesco, 1499–506
Pizzabiocca, Adriano, 1901–3
Plau, Bernard, 2554–60
Plevey, Raymond G., 1507–11
Plieninger, Hans, 2691–2
Pocar, Donato, 141–5
Pollard, David R., 1782–7
Polonsky, Judith, 2065–9, 2196–9
Porter, Alexander E. A., 2657–64
Porter, Lawrence J., 2278–86
Potter, Barry V. L., 2026–8, 2029–32
Pover, Keith A., 2338–45
Powell, Richard L., 426–8, 429–34, 435–9
Power, Joseph, 1070–5
Poynton, Alan, 2435–44
Prange, Thierry, 553–5
Price, Anthony W., 1978–85, 1986–93
Procter, Garry, 535–9
Proctor, George R., 1245–50, 1251–6, 2141–5
Psaila, Alexander F., 1080–9
Puglia, Giuseppe, 1862–5
Purrello, Giovanni, 1635–40
Quesneau-Thierry, Annik, 113–15, 1739–46
Quigley, Killian, 1299–305
Rabie, Christiaan J., 2474–9
Rabinsohn, Yechiel, 1769–72
Radics, Lajos, 2572–80
Rahimi-Rastgoo, Soheila, 362–71, 1176–84
Raines, David, 1311–13
Raithby, Paul R., 395–9, 2774–80
Rall, Gerhardus J. H., 1804–9
Ramsden, Christopher A., 1870–8
Ranise, Angelo, 2626–30
Ranzi, Bianca M., 2686–90
Ray, Anil B., 2700–4
Read, Christine M., 2581–6
Read, Robert W., 2191–5
Read, Roger W., 2184–90
Reamonn, Liam S. S., 1194–8
Reese, Colin B., 1487–92
Regnoli, Rodolfo, 2516–19
Rendell, Richard W., 1507–11
Renzi, Gabriele, 1901–3
Reynolds, Derek P., 852–7, 1583–6, 2346–52
Reynolds, Kenneth, 1345–6
Ricca, Guiliana Severini, 675–6
Richardson, Geoffrey D., 1407–13
Ridge, Richard J., 378–80
Rindone, Bruno, 828–32
Risaliti, Amerigo, 240–3, 686–9
Roberts, David A., 892–6, 897–901
Roberts, Stanley M., 690–2, 852–7, 1583–6, 1847–52, 2084–7, 2088–92, 2093–7
Robertson, J. Monteath, 1782–7
Robins, David J., 119–21
Robinson, Malcolm L., 1978–85 1986–93
Robson, Nigel S., 102–6
Rochefort, Malcolm P., 775–8
Rodes, Rosa, 2732–7
Rogers, Norman H., 1347–51
Romeo, Aurelio, 809–16
Rosado, Francisco, 1199–205
Roux, David G., 1003–6, 1025–8 1540–3, 2179–83, 2463–9, 2856–65
Rowland, Ronald, 314–24
Roy, Miguel A., 1420–6
Rubin, Mordecai B., 2670–7
Rutledge, Peter S., 822–7, 2581–6
Ruzo, Luis O., 728–32
Sabongi, Gebran J., 362–71, 1176–84
Saccarello, Maria Luisa, 722–7
Saeed, May S., 2061–4
Sahai, Mahendra, 2700–4
Saino, Tetsushi, 1618–21
Sainsbury, Malcolm, 2013–20
Sainton, Joelle, 2136–40
Saito, Hiromitsu, 2503–6, 2507–10
Sakairi, Nobuo, 563–73
Sakuma, Yoshiharu, 293–6, 978–81
Sakurai, Hiroshi, 2705–8
Sala, Tony, 85–9
Saleh, Amal A., 1090–7
Sales, Keith D., 1706–10
Sammes, Michael P., 2458–62, 2480–4
Sammes, Peter G., 170–5, 2322–9 2542–8
Samouilidis, Ioannis, 1965–70
Samuelsson, Bertil, 2866–9
Santandrea, Marco, 136–40
Sanyal, Baijayanti, 2881–6
Sargent, Melvyn V., 85–9
Sartori, Giovanni, 1862–5
Sasson, Sabar, 2228–32
Sato, Kenichi, 14–19
Sato, Tadashi, 947–9
Satoh, James Y., 1916–19
Savoia, Diego, 260–3
Scarpati, Rachele, 1955–9
Scheinmann, Feodor, 2338–45, 2346–52, 2353–7
Schembri, Patrick, 1080–9
Schenone, Pietro, 2626–30
Schoeman, Wentzel J., 906–10
Scolastico, Carlo, 136–40, 675–6 2549–53, 2686–90
Scopes, David I. C., 1139–46
Scott, Peter W., 97–101, 2870–7
Scotton, Mirella, 1667–70
Scourides, Panayiotis A., 490–4, 1706–10
Scriven, Eric F. V., 611–13
Scrowston, Richard M., 677–85, 1029–37
Seden, Timothy P., 1240–4, 2587–90, 2608–11, 2717–20
Sefton, Mark A., 119–21
Seiber, James N., 2169–73
Sekine, Mitsuo, 306–10
Selby, David W., 1847–52
Seno, Kaoru, 2470–3
Servy, Claudine, 1739–46
Setsune, Junichiro, 1641–5
Shanta, Mohammed, 1888–9
Sharma, Pramila, 1603–6
Sharma, Rajiv, 2001–8
Sharp, John T., 1230–2, 1331–4, 1718–23
Sharpe, F. Richard, 311–13
Shaw, C. J. Granville, 1427–30, 1431–5
Shaw, Gordon, 2304–9, 2310–15 2316–21, 2728–31
Shea, Chi-Ming, 2268–71
Sheradsky, Tuvia, 2781–6
Shibuya, Shiroshi, 2105–11
Shimizu, Kazuyuki, 2122–5
Shin, Chung-gi, 419–21
Shinkai, Seiji, 1622–5
Shiraishi, Shinsaku, 2527–30
Shishibori, Tsuyoshi, 2098–104
Shoolery, James N., 553–5
Shoppee, Charles W., 1904–8
Siddiqui, Tayyaba, 2851–5
Siew, Pik Yuen, 2445–9
Silva, Mario, 2842–4
Silverton, James V., 1251–6
Simon, Charles, 2254–7
Simonidesz, Vilmos, 2572–80
Simonsen, Stanley H., 354–61, 1870–8
Simpson, Thomas H., 1782–7
Sinclair, Neil M., 78–80, 579–85
Singh, Harjit, 1013–18
Singh, Pahup, 257–9
Singh, Paramjit, 1013–18
Sinnott, Michael L., 2117–21
Skowroska, Aleksandra, 833–6
Slade, Christopher J., 2591–6
Sleigh, John H., 217–20
Smale, Terence C., 187–90
Smalley, Robert K., 633–8
Smith, Francis J., 2141–5
Smith, Paul, 837–42
Smith, Victoria J., 1347–51
Soga, Osamu, 1414–19
Sohar, Pal, 699–704
Sparkes, George R., 372–7
Speight, James G., 314–24
Stankovic, Jezdimir, 1679–81
Staunton, James, 31–42, 43–51, 2244–8
Stephen, Michael A., 705–11
Stepney, Ray, 495–505
Stevens, Ian D. R., 1756–60
Stevenson, Robert, 1347–51
Steyn, Pieter S., 52–4, 1057–65, 2474–9
Stobie, Alan, 2561–6, 2567–71
Stoodley, Richard J., 388–94, 1007–12, 2001–8
Storie, Iain T., 2812–17
Storr, Richard C., 1147–9
Stradi, Riccardo, 141–5, 722–7
Strauss, Heinrich F., 906–10
Suarato, Antonino, 233–6
Suckling, Colin J., 2645–56
Suga, Takayuki, 2098–104
Suginome, Hiroshi, 943–6, 1356–64, 2268–71
Suschitzky, Hans, 611–13, 633–8 648–56, 690–2, 982–94, 1370–80, 1682–7, 2358–61, 2362–70, 2374–9, 2380–2, 2709–16
Sutherland, Ian O., 586–600, 1436–49, 1450–7, 1458–61, 1462–72, 1473–6, 1477–86, 2033–48
Suzuki, Koji, 2805–7
Suzuki, Toshio, 2801–4
Sykes, Peter J., 481–6, 1019–24, 1859–61, 2146–51
Szabo, Ladislas, 1971–7
Takahashi, Kazufumi, 2417–21
Takahashi, Thomas T., 1916–19
Takai, Makoto, 325–9
Takano, Seiichi, 457–61
Takita, Tomohisa, 1618–21
Takuwa, Akio, 1414–19
Talekar, Ratnaker R., 119–21
Tam, Shang Wai, 444–7
Tamura, Yasumitsu, 1132–5
Tamura, Yasumitzu, 2830–4
Tandon, Vishnu K., 1147–9
Taniguchi, Mikio, 163–9
Tannock, James, 1462–72
Tashiro, Masashi, 2417–21
Tasker, Peter A., 81–4
Taticchi, Aldo, 176–80
Tatlow, John Colin, 217–20, 1507–11, 1726–30
Taylor, Giles A., 1700–5
Taylor, Grahaeme N., 1761–8
Taylor, Graham, 426–8, 429–34, 435–9
Taylor, Grahame N., 869–76, 1218–24, 1225–9, 2174–8
Taylor, Jack A., 648–56, 1370–80
Taylor, John B., 2542–8
Telford, Robert P., 27–30
Temperelli, Aldemio, 643–7
Terenghi, Giuliana, 1862–5
Thebtaranonth, Chachanat, 1994–2000
Thind, Sukhpal S., 849–50, 865–8, 1890–4, 1895–900

Thomas, Desmond R., 611–13
Thomson, Ronald H., 249–56, 257–9, 282–8, 289–92, 2923–32
Tingoli, Marco, 1924–7
Tipping, Anthony E., 314–24, 372–7, 406–9, 927–32, 1544–50
Tisserand, Madeleine, 1–6
Toh, Hee T., 712–13
Toki, Takuya, 1944–9
Tomino, Akiko, 2801–4
Torre, Giovanni, 2152–61
Torrini, Ines, 440–3
Toth, Gabor, 227–32
Totten, Christopher E., 1679–81
Toubiana, Raoul, 1940–3
Townsend, Leroy B., 1853–8
Travis, Anthony S., 277–81, 779–86
Trimarco, Pasqualina, 141–5
Trombini, Claudio, 260–3
Trotter, Jill, 490–4
Tsubuki, Masayoshi, 759–61
Tsuda, Yoshihiko, 1866–9
Tsujimoto, Kazuo, 2613–16
Tsushima, Tadahiko, 639–42
Tulloch, Charles D., 2812–17
Tyler, Peter C., 1528–34, 1535–9, 2762–7, 2767–73
Tyman, John H. P., 1658–66
Tyrrell, Hilary M., 55–71
Uchida, Tsutomu, 943–6, 1356–64
Uda, Hisashi, 963–77
Uemura, Sakae, 1098–103
Umani-Ronchi, Achille, 260–3
Umezawa, Bunsuke, 1165–8, 1169–75
Umezawa, Hamao, 1618–21
Unno, Katsuo, 2801–4
Utley, James H. P., 1154–60
Vadasz, Andrew, 556–62
Van der Westhuizen, Jan H., 1003–6, 1540–3, 2856–65
Vandrevala, Marazban H., 97–101, 1512–15, 2870–7
Van Heerden, Fanie R., 2463–9
Van Rooyen, Petrus H., 2179–83
Varon, Zoia, 2065–9
Vassilatos, Socrates, 2851–5
Vasvari-Debreczy, Lelle, 227–32
Vaya, Jacob, 2228–32
Venter, Elize M. M., 906–10
Vernon, John M., 156–62
Veronese, Augusto C., 2249–53
Vidari, Giovanni, 221–6
Vierhapper, Friedrich W., 1933–9
Vilkas, Erna, 2136–40
Vilkas, Michel, 2136–40
Vita-Finzi, Paola, 221–6
Vleggaar, Robert, 43–51, 52–4
Wada, Kazuyo, 473–80
Wade, Roy, 462–5, 1928–32
Wadsworth, Alan H., 852–7
Wadsworth, Harry J., 933–7, 1381–3
Wahid bin Samsudin, M., 1118–23
Wahid bin Samsudin, Mohd., 869–76
Wakai, Hiroo, 14–19
Wakefield, Basil J., 648–56, 1370–80, 1682–7, 2392–7, 2709–16
Wakselman, Claude, 1114–17, 2845–50
Waley, Stephen G., 2322–9
Walker, Geoffrey J., 2581–6
Warnke, Jonathan G., 2797–800
Watanabe, Masako, 1365–9
Waterhouse, Ian, 1045–50, 1405–6
Watson, Thomas R., 422–5, 556–62, 2162–8, 2169–73
Watson, William H., 2842–4
Wattanasin, Sompong, 1555–66, 1567–77, 2678–82
Watts, William E., 2213–17
Weakley, Timothy J. R., 273–6, 2061–4
Webber, Andrew, 1154–60
Wenkert, Ernest, 176–80
Wenteler, George L., 906–10
Wessels, Philippus L., 52–4, 1057–65
Whalley, W. Basil, 1779–81, 1782–7, 1788–95, 2435–44, 2445–9
Wharton, Clifford J., 2721–7
Whiting, Donald A., 614–22, 623–8, 2637–44
Whittaker, Norman, 495–505
Whitten, Jeffrey P., 2709–16
Whybrow, Derek, 1711–17
Wiechers, Adriaan, 906–10
Wightman, Richard H., 2561–6, 2567–71
Wilcox, Russell, 132–5
Williams, Roger O., 2535–41
Wilson, Steve, 1225–9
Wise, Dean S., 1853–8
Witty, Michael J., 858–64
Wong, Oi Hoong, 1283–9
Wood, Andrew F., 614–22, 623–8
Wood, Hamish C. S., 2645–56
Woodgate, Paul D., 822–7, 2581–6
Woolley, Geoffrey T., 1847–52, 2093–7
Worthington, Roger D., 282–8, 289–92
Wrigglesworth, Roger, 2645–56, 2721–7
Wright, David, 2728–31
Wylie, Robert D., 1104–8
Yagen, Boris, 2914–17
Yagi, Haruhiko, 2112–16
Yagoub, Ahmed K., 2405–7
Yamaguchi, Hiroyuki, 978–81
Yamamoto, Hajime, 2417–21
Yamamoto, Hiroshi, 2300–3
Yamamoto, Isamu, 306–10
Yamamoto, Iwao, 574–8
Yamamoto, Kenjiro, 2755–62
Yamamoto, Okiko, 203–7, 212–16
Yamauchi, Kiyoshi, 2787–92
Yamauchi, Sadami, 197–202
Yamazaki, Kazuo, 1944–9
Yasuda, Hitoshi, 1132–5
Yazawa, Tetsuo, 1641–5
Yoneda, Fumio, 293–6, 978–81
Yonemitsu, Osamu, 163–9
Yoshida, Zenichi, 1641–5
Yoshimura, Juji, 14–19, 419–21
Young, Douglas W., 512–21, 522–8, 1233–9
Young, Geoffrey T., 2797–800
Zabel, Volker, 2842–4
Zakaria, Zuriati, 1870–8, 1879–87
Zanarotti, Antonio, 775–8
Zanotti, Giancarlo, 1499–506
Zanotti, Giuseppe, 2249–53
Zecchi, Gaetano, 116–18
Zervas, Leonidas, 1965–70
Zia, Abid, 849–50
Zingaro, Ralph A., 2287–93
Zissmann, Elise, 1739–46
Zydowsky, Thomas M., 1679–81

SUBJECT INDEX, 1980

A2
Total synthesis of prostaglandin A_2 involving the reaction of a heterocuprate reagent with an allyl epoxide, 2084–7
Preparation and hydrolysis of some 4-substituted bicyclo[3.1.0]hex-2-ene-6-carboxaldehydes: synthesis of the prostaglandin A_2 analog possessing a butyl group in place of the octenol side chain 2088–92

A3
Rearrangement of the lactone ring of gibberellin A_3 in aqueous alkali; participation of the ionized 3-hydroxy group in an anti S_N2' reaction, 2117–21

ABSTRACTION
Coenzyme models. Part 23. Formation and reactivity of the stable 'quinone form' of flavin in cationic polymer matrixes, 1622–5

ACANTHOLIDE
Potential anticancer agents. Part 13. Cytotoxic constituents of Acanthospermum glabratum (Asteraceae), 1090–7

ACANTHOSPERMUM
Potential anticancer agents. Part 13. Cytotoxic constituents of Acanthospermum glabratum (Asteraceae), 1090–7

ACENAPHTHENONE
1,3,4,5-Tetrahydrobenz[cd]indoles and related compounds. Part IV. Experiments towards the synthesis of the ergot alkaloids and related structures. Part 2. New alkylations on α-carbon and nitrogen in α-amido ketones, 2126–33

ACETAL
Reactions of coordinated ligands. Part 8. Reaction of Grignard reagents with 2-alkoxy-1,3-dioxolanes; an improved route to aldehydes, 756–8
Total synthesis of prostaglandin-$F_{2\alpha}$ involving stereocontrolled and photo-induced reactions of bicyclo[3.2.0]heptanones, 852–7

ACETALDEHYDE
Ketenimines as intermediates to heterocycles. Part 2. 2-Phenylimino-3,4,5-triphenyl-1,3-oxazoline, 385–7
Applications of substituted arylacetaldehydes in the total synthesis of seco-mesembrane alkaloids. Part 1. The total synthesis of (±)-O-methyljoubertiamine, 906–10
Mechanism of light-induced reductive acetylation of 1,2-naphthoquinone with acetalaldehyde, 1414–19

ACETATE
Tetranortriterpenoids and related compounds. Part 24. The interrelation of swietenine and swietenolide, the major tetranortriterpenoids from the seeds of Swietenia macrophylla (Meliaceae), 529–30
Partial protection of carbohydrate derivatives. Part 4. Regioselective 2'-O-deacylation of fully acylated purine and pyrimidine ribonucleosides with hydroxylaminium acetate, 563–73
Chromyl halide oxidation of steroid alkenes, 639–42
The photocycloaddition of vinyl acetate to benzene and its simple derivatives: functionalization of the dihydrosemibullvalene skeleton, 1118–23
Studies on tetrahydroisoquinolines. Part 15. Lead tetraacetate oxidation of four hydroxytetrahydroprotoberberines, (±)-govanine, (±)-discretine, (±)-corytencine, and (±)-10-hydroxy-2,3,11-trimethoxytetrahydroprotoberberine, 1169–75
Oxidation of secondary allylic acetates with chromium(VI) reagents 1769–72
A novel hydrazino–transfer reaction to a saturated carbon: direct conversion of substituted acetophenone and aliphatic ketone 4-nitrophenylhydrazones into 1,2-bishydrazones. Reactions of mercury(II) acetate with nitrogen compounds. Part 6, 2218–21
Studies on steroids. Part 48. Neighboring group effects. Part 2. Effect of epoxide on the hydrolysis of adjacent acetate groups, 2507–10

ACETOACETATE
Convenient syntheses of alkyl β-resorcylate derivatives, 2272–7

ACETOGENIN
Acetogenin synthesis. Organocopper reagents, anions of 1,3-dithianes and of protected cyanohydrins as intermediates in ketide side-chain synthesis, 136–40

ACETONE
Lewis-acid-induced electrophilic substitution in indoles with acetone. Part 2, 553–5

ACETONYLTHIO
Synthesis of tert-butyl 2-(2-methoxycarbonyl-1-methylethylidene-)penam-3-carboxylates; clavulanic acid analogs, 187–90

ACETONYLTHIOAZETIDINONE
Synthesis of tert-butyl 2-(2-methoxycarbonyl-1-methylethylidene-)penam-3-carboxylates; clavulanic acid analogs, 187–90

ACETOPHENONE
Light-induced reactions of 2-(N-alkyl-N-arylamino)acetophenones and related amino ketones: formation of 1,3-diarylazetidin-3-ols, 1671–8
A novel hydrazino–transfer reaction to a saturated carbon: direct conversion of substituted acetophenone and aliphatic ketone 4-nitrophenylhydrazones into 1,2-bishydrazones. Reactions of mercury(II) acetate with nitrogen compounds. Part 6, 2218–21

ACETOXY
Regio- and stereo-selectivity of acetoxymercuration of acetylenes, 1098–103
Studies on tetrahydroisoquinolines. Part 14. A synthesis of 4-alkoxyaporphines, 1165–8
Oxidation of secondary allylic acetates with chromium(VI) reagents 1769–72
18-Substituted steroids. Part 6. Synthesis of 3α,18-dihydroxy-11β,18-epoxy-5β-pregnan-20-one(21-deoxy-3α,5β-tetrahydroaldosterone), 2597–607

ACETOXYANTHRAQUINONE
Chemistry of quinones. Part 6. The selective hydrolysis of α-acetoxyanthraquinones and related compounds by trifluoroacetic acid containing small amounts of water, 1592–4

ACETOXYHYDROXY
18-Substituted steroids. Part 6. Synthesis of 3α,18-dihydroxy-11β,18-epoxy-5β-pregnan-20-one(21-deoxy-3α,5β-tetrahydroaldosterone), 2597–607

ACETOXYHYDROXYCYCLOANDROSTANE
The participation of 3,5-cyclosteroids in aromatization reactions, 1306–10

ACETOXYHYDROXYMETHYLESTRADIENONE
Preparation and acid-catalyzed rearrangements of a steroidal 1,4-quinol, 1679–81

ACETOXYHYDROXYPREGNANONE
18-Substituted steroids. Part 6. Synthesis of 3α,18-dihydroxy-11β,18-epoxy-5β-pregnan-20-one(21-deoxy-3α,5β-tetrahydroaldosterone), 2597–607

ACETOXYMERCURATION
Regio- and stereo-selectivity of acetoxymercuration of acetylenes, 1098–103

ACETOXYNAPHTHOQUINONE
Chemistry of quinones. Part 6. The selective hydrolysis of α-acetoxyanthraquinones and related compounds by trifluoroacetic acid containing small amounts of water, 1592–4

ACETOXYPREGNENOL
18-Substituted steroids. Part 5. Further studies on the synthesis of 11β,18,21-trihydroxypregn-4-ene-3,20-dione ('18-hydroxycorticosterone'), 2591–6

ACETOXYTHALIPORPHINE
Studies on tetrahydroisoquinolines. Part 14. A synthesis of 4-alkoxyaporphines, 1165–8

ACETYL
Stereospecific transformations of steroidal 2,3-aziridines into substituted amino thiols and ring-A fused heterocycles, 766–74
Structural investigations of 3-acylpyrrolidine-2,4-diones by nuclear magnetic resonance spectroscopy and x-ray crystallography, 1057–65
Photobromination of carbohydrate derivatives. Part 5. Preparation and reactions of (5S)-1,2,3,4-tetra-O-acetyl-5-bromo-β-D-xylopyranose; a new type of 'double-headed' nucleoside, 2767–73

ACETYLACETONE
Restricted rotation about the carbon–nitrogen single bond of 1-aryl-4,6-dimethylpyrimidin-2(1H)-ones and the corresponding thiones, 1599–602

ACETYLANDROSTENOAZIRINONE
Stereospecific transformations of steroidal 2,3-aziridines into substituted amino thiols and ring-A fused heterocycles, 766–74

ACETYLATION
Mechanism of light-induced reductive acetylation of 1,2-naphthoquinone with acetalaldehyde, 1414–19
Convenient syntheses of alkyl β-resorcylate derivatives, 2272–7
ACETYLBROMOXYLOPYRANOSE
Photobromination of carbohydrate derivatives. Part 5. Preparation and reactions of (5S)-1,2,3,4-tetra-O-acetyl-5-bromo-β-D-xylopyranose; a new type of 'double-headed' nucleoside, 2767–73
ACETYLCOUMARIN
Steric effects in the ring expansion of coumarins by 2-diazopropane and tert-butyldiazomethane, 2937–42
ACETYLDICHLOROPURINYLXYLOPYRANOSYLURACETYLENE
Pyrazines. Part 5. Preparation of 3,8-diazabicyclo[3.2.1]octane-2,4-dione derivatives, 1603–6
Catalytic and noncatalytic addition of aromatic amines to terminal acetylenes in the presence of mercury(II) chloride and acetate, 2732–7
ACETYLENECARBOXYLATE
Addition reactions of heterocyclic compounds. Part 71. The formation of 1,3a,3b,4,6a,6b-hexahydrocyclopenta[3,4]cyclobuta[1,2-b]pyrroles from dimethyl acetylenedicarboxylate and 1-aryl-1,4-dihydropyridines, 81–4
ACETYLENEDICARBOXYLATE
Addition reactions of heterocyclic compounds. Part 70. Formation of quinolizines and indolizines from nicotine derivatives and acetylenic esters, 78–80
Addition reactions of heterocyclic compounds. Part 71. The formation of 1,3a,3b,4,6a,6b-hexahydrocyclopenta[3,4]cyclobuta[1,2-b]pyrroles from dimethyl acetylenedicarboxylate and 1-aryl-1,4-dihydropyridines, 81–4
Addition reactions of heterocyclic compounds. Part 72. Dimethyl acetylenedicarboxylate with 1,2,6,7,8,9-hexahydropyrrolo[3,2,1-jk]carbazole, 535–9
ACETYLGLUCOPYRANOSE
Photobromination of carbohydrate derivatives. Part 2. Penta-O-acetyl-β-D-glucopyranose; the 5-bromo derivative and products of further bromination, 1523–7
ACETYLGLUCOSAMINE
Syntheses of 1- and 6-S- and 1- and 6-Se-derivatives of 2-amino-2-deoxy-α/β-D-glucopyranose, 2287–93
ACETYLHYDRAZONE
Photo-induced transformations. Part 44. Formation of lactams in the photolysis of some steroidal acetylhydrazones in the presence of oxygen, 1356–64
ACETYLHYDROXY
A stereoselective total synthesis of 17-O-acetyl-14α-hydroxy-3-O-methyl-11-oxoestradiol-17β, 2793–6
ACETYLHYDROXYMETHYL
A stereoselective total synthesis of 17-O-acetyl-14α-hydroxy-3-O-methyl-11-oxoestradiol-17β, 2793–6
ACETYLHYDROXYMETHYLOXO
A stereoselective total synthesis of 17-O-acetyl-14α-hydroxy-3-O-methyl-11-oxoestradiol-17β, 2793–6
ACETYLHYDROXYMETHYLOXOESTRADIOL
A stereoselective total synthesis of 17-O-acetyl-14α-hydroxy-3-O-methyl-11-oxoestradiol-17β, 2793–6
ACETYLIDE
Chain-extension reactions of acetylenes. Part 4. Reaction of 1,3-dilithioacetylides with carbonyl electrophiles, hexamethylphosphoric triamide, and benzylideneaniline, 2338–45
ACETYLMETHYLHEXAHYDROXY
Synthetic studies towards complex diterpenoids. Part 13. Stereospecific synthesis of intermediates to the diterpene alkaloids and the C_{20}-gibberellins by a novel rearrangement of angularly fused cyclobutanones, 2881–6
ACETYLPREGNANONE
18-Substituted steroids. Part 7. Synthesis and structure of 11β,18-epoxy-3α,18,21-trihydroxy-5β-pregnan-20-one (3α,5β-tetrahydroaldosterone), 2818–29
ACETYLPYRROLIDINEDIONE
Structural investigations of 3-acylpyrrolidine-2,4-diones by nuclear magnetic resonance spectroscopy and x-ray crystallography, 1057–65
ACID
Acid-catalyzed reactions of 1α,2α-epoxy-1β-methyl- and 1α-hydroxy-1β-methyl 5α-steroids, 440–3
Acid-catalyzed rearrangement of bis-5,6-dihydro 4H-1,3-thiazin-2-yl and other disulfides and related reactions, 665–71
Synthetic studies toward complex diterpenoids. Part 11. Stereochemically defined synthesis of the racemates of 1,2,3,4,4a,9a-hexahydro-7-methoxy-1-methylfluorene-1-carboxylic acid, 804–8
Studies of lysergic acid diethylamide and related compounds. Part 8. Structural identification of new metabolites of lysergic acid diethylamide obtained by microbial transformation using Streptomyces roseochromogenes, 902–5
Synchronous skeletal rearrangement of D-nor-5α-androstane-16α and -16β-carbonyl m-chlorobenzoyl peroxides, 943–6
Structural investigations of 3-acylpyrrolidine-2,4-diones by nuclear magnetic resonance spectroscopy and x-ray crystallography, 1057–65
Sultone formation from 2,4,6-triisopropylbenzenesulfinic acid, 1076–9
The structure of bonellin and its derivatives. Unique physiologically active chlorins from the marine echurian Bonellia viridis, 1080–9
Bicyclic heterocycles with nitrogen at the ring junction. Part 2. Application of the Dakin-West reaction to the synthesis of imidazo[5,1-f]-1,2,4-triazin-4(3H)-ones, 1139–46
Biosynthesis of aromatic isoprenoids. Part 5. The preparation of 1-(3,3-dimethylallyl)-L-tryptophan and cyclo-L-alanyl-1-(3,3-dimethyl-allyl)-L-tryptophan and their nonincorporation into echinulin, 1294–8
Chemistry of quinones. Part 6. The selective hydrolysis of α-acetoxyanthraquinones and related compounds by trifluoroacetic acid containing small amounts of water, 1592–4
Reactions of 4-bromo-4-(1-hydroxypropyl)-2,6-di-tert-butylcyclohexa-2,5-dienone in methanolic sulfuric acid, 1595–8
Regio- and stereospecific synthesis in threo-3-amino-2-hydroxy acids, novel amino acids contained in aminopeptidase inhibitors of microbial origin, 1618–21
Further synthetic investigations in the eremophilane sesquiterpene group. Synthesis of (±)-isovalencenic acid, (±)-isovalencenol, and their (Z)-isomers, and experiments directed towards the synthesis of tessaric acid, 1752–5
Isoxazole amino-acids as glutamic acid agonists. Synthesis of some analogs and homologs of ibotenic acid, 1826–33
Benzocyclobutenes. Part 5. Synthesis of 4-hydroxy-, 4,5-dihydroxy-, and 3,6-dihydroxy-benzocyclobutene-1,2-dione (benzologs of semisquaric and squaric acid), 1841–6
A new tricarboxylic acid anhydride from Paecilomyces variotii, 2134–5
Purines, pyrimidines, and imidazoles. Part 54. Interconversion of some intermediates in the de novo biosynthesis of purine nucleotides, 2316–21
On the chemistry of β-lactamase inhibition by 6β-bromopenicillanic acid, 2322–9
Vesicant principles of poison ivy and related plants: synthesis of the urushiols, 1,2-dihydroxy-3-[(Z)-pentadec-8-enyl]benzene and 1,2-dihydroxy-3-pentadecylbenzene, 2331–7
Chain-extension reactions of acetylenes. Part 4. Reaction of 1,3-dilithioacetylides with carbonyl electrophiles, hexamethylphosphoric triamide, and benzylideneaniline, 2338–45
Conjugate, homoconjugate, and 1,2-additions of acetylene nucleophiles and their application to prostaglandin synthesis, 2346–52
Utilization of sulfur-containing leaving groups. Part 2. Monitored reduction of carboxylic acids into alcohols or aldehydes via 3-acylthiazolidine-2thiones by sodium borohydride or diisobutylaluminum hydride, 2470–3
Synthetic studies in the α-kainic acid (2,3-trans,3,4-cis-2-carboxy-4-isopropenylpyrrolidin-3-ylacetic acid) series, 2542–8
Reactions of androsta-3,5-dienes with m-chloroperbenzoic acid, 2581–6
Inhibitors of pyrimidine biosynthesis. Part 1. Synthesis of potential transition-state analogs of aspartate transcarbamylase, 2721–7
Studies on the syntheses of heterocyclic compounds. Part 855. Cycloaddition reaction of bis(trimethylsilyl)allenedicarboxylate with homocyclic dienes, 2801–4
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
Alkyltrifluoromethanesulfonates as alkylating reagents for aromatic compounds, 2887–94

ACID(contd)
The chemistry of nitrilium salts. Part 1. Acylation of phenols and phenol ethers with nitriles and trifluoromethanesulfonic acid, 2894–900
ACTIVATED
Alkyloxytris(dimethylamino)phosphonium salts. Part 21. Anomeric hydroxy–group activation of 2,3:4,6–di–O–isopropylidene–α–D–mannopyranose, thioglycosylation, and glycosylation, 381–4
A novel reduction of activated olefins by lithium amides, 1267–9
ACTIVITY
The chemistry of 4–mercaptoazetidin–2–ones. Part 2. Synthesis of bisnorpenicillins, 150–5
ACYL
Metal–assisted reactions. Part 8. Selectivity in the reaction of organic halides with tetrahydroborate and the reduction of acyl halides to aldehydes, 27–30
Photocyclization of enamides. Part 14. Substituent effects in the photocyclization of N–α,β–unsaturated acylanilides, 197–202
Selective hydrogenation of 4,5–dihydro–1,3–oxazin–6–ones to carboxaldehyde derivatives; chemical differentiation between acylazetidin–2–ones and the corresponding isomeric oxazin–6–ones, 378–80
Partial protection of carbohydrate derivatives. Part 4. Regioselective 2'–O–deacylation of fully acylated purine and pyrimidine ribonucleosides with hydroxylaminium acetate, 563–73
2–Imidazolines. Part 2. Pyrolysis of 1–acyl–4,5–diamino–4,5–dihydroimidazoles: a novel pyrimidine synthesis, 722–7
Ene–type reactions involving transfer of acyl groups. Addition of 4–phenyl–1,2,4–triazoline–3,5–dione to various unsaturated compounds, 843–5
Bicyclic heterocycles with nitrogen at the ring junction. Part 2. Application of the Dakin–West reaction to the synthesis of imidazo[5,1–f]–1,2,4–triazin–4(3H)–ones, 1139–46
Unsaturated carbohydrates. Part 22. Alkenes from 5–bromohexopyranose derivatives, 1535–9
o–Quinonoid compounds. Part 17. Evidence for exo–selectivity in the 1,5–sigmatropy of acyl and vinyl groups, 1909–15
Conjugate, homoconjugate, and 1,2–additions of acetylene nucleophiles and their application to prostaglandin synthesis, 2346–52
Utilization of sulfur–containing leaving groups. Part 2. Monitored reduction of carboxylic acids into alcohols or aldehydes via 3–acylthiazolidine–2thiones by sodium borohydride or diisobutylaluminum hydride, 2470–3
ACYLALKYLPYRIDINE
Synthetic applications of N–N linked heterocycles. Part 8. Regiospecific synthesis of 4–(α–acylalkyl) pyridines by attack of lithium enolates of ketones γ to N–(2,6–dimethyl–4–oxopyridin–1–yl)pyridinium salts, 2458–62
ACYLAMINO
Bicyclic heterocycles with nitrogen at the ring junction. Part 2. Application of the Dakin–West reaction to the synthesis of imidazo[5,1–f]–1,2,4–triazin–4(3H)–ones, 1139–46
ACYLAMINOIMIDAZOLE
2–Imidazolines. Part 2. Pyrolysis of 1–acyl–4,5–diamino–4,5–dihydroimidazoles: a novel pyrimidine synthesis, 722–7
ACYLANILIDE
Photocyclization of enamides. Part 14. Substituent effects in the photocyclization of N–α,β–unsaturated acylanilides, 197–202
ACYLATION
A possible model for a new chiral glyceride synthesis. Part 2. Synthesis of 1,3–di–O–aroyl– and 1–O–aroyl–3–O–tosyl–sn–glycerols from 2,5–O–methylene–D–mannitol, 1–6
Formylation and acylation reactions catalyzed by trifluoromethanesulfonic acid, 181–6
Reactions of conjugated arylazocycloalkenes with Grignard reagents. Part 3. A convenient synthesis of 2,6–diaryl– and 2–alkyl–6–arylcyclohexanones, 240–3
'Le BOP' reagent and imidazole for selective O–acylation of trehalose, 1940–3
Studies on heterocyclic chemistry. Part 21. Reactions of 3–mercapto– and 3–acylthio–3–isothiazoline–5–thiones: ring transformations, a base–induced ring cleavage, and thiol ester–thioxo ester rearrangements, 2693–9
The chemistry of nitrilium salts. Part 1. Acylation of phenols and phenol ethers with nitriles and trifluoromethanesulfonic acid, 2894–900
ACYLCYCLOPENTENE
Conjugate, homoconjugate, and 1,2–additions of acetylene nucleophiles and their application to prostaglandin synthesis, 2346–52
ACYLGLUCOPYRANOSE
Unsaturated carbohydrates. Part 22. Alkenes from 5–bromohexopyranose derivatives, 1535–9
ACYLIMIDOIMIDE
Reaction of benzo[c]cinnolinium–5–(N–acyl– and N–benzimidoimides) with diphenylcyclopropenone, 1147–9
ACYLINDENE
o–Quinonoid compounds. Part 17. Evidence for exo–selectivity in the 1,5–sigmatropy of acyl and vinyl groups, 1909–15
ACYLISOTHIAZOLINE
Studies on heterocyclic chemistry. Part 21. Reactions of 3–mercapto– and 3–acylthio–3–isothiazoline–5–thiones: ring transformations, a base–induced ring cleavage, and thiol ester–thioxo ester rearrangements, 2693–9
ACYLOIN
Base–catalyzed acyloin rearrangements: the first synthesis of 4–arylflavan–3–ones via chalcone epoxides, 1025–8
ACYLOXY
Chemistry of quinones. Part 6. The selective hydrolysis of α–acetoxyanthraquinones and related compounds by trifluoroacetic acid containing small amounts of water, 1592–4
ACYLOXYBENZOPHENONE
Chemistry of quinones. Part 6. The selective hydrolysis of α–acetoxyanthraquinones and related compounds by trifluoroacetic acid containing small amounts of water, 1592–4
ACYLOXYNAPHTHACENEQUINONE
Chemistry of quinones. Part 6. The selective hydrolysis of α–acetoxyanthraquinones and related compounds by trifluoroacetic acid containing small amounts of water, 1592–4
ACYLOXYPYRIDONE
N–Oxides and related compounds. Part 60. Novel thermal and photochemical rearrangements of N–substituted 2–pyridones, 2743–54
ACYLPYRROLIDINEDIONE
Structural investigations of 3–acylpyrrolidine–2,4–diones by nuclear magnetic resonance spectroscopy and x–ray crystallography, 1057–65
ACYLRIBOANUCLEOSIDE
Partial protection of carbohydrate derivatives. Part 4. Regioselective 2'–O–deacylation of fully acylated purine and pyrimidine ribonucleosides with hydroxylaminium acetate, 563–73
ACYLRIBONUCLEOSIDE
Partial protection of carbohydrate derivatives. Part 4. Regioselective 2'–O–deacylation of fully acylated purine and pyrimidine ribonucleosides with hydroxylaminium acetate, 563–73
ADAMANTANOL
Adamantane chemistry. Part 3. Abnormal hypoiodite reactions of 2–substituted adamantan–2–ols; synthetic routes to 4–oxahomo– and 2–oxaadamantanes, and 7–substituted–bicyclo[3.3.1]nonan–3–ols, 410–18
ADDN
Mesoionic compounds. Part 10. A study of the reactions of 3–(3–pyridyl)sydnone with some nucleophilic reagents, 20–6
Addition reactions of heterocyclic compounds. Part 71. The formation of 1,3a,3b,4,6a,6b–hexahydrocyclopenta[3,4]cyclobuta[1,2–b]pyrroles from dimethyl acetylenedicarboxylate and 1–aryl–1,4–dihydropyridines, 81–4
The chemistry of 4–mercaptoazetidin–2–ones. Part 2. Synthesis of bisnorpenicillins, 150–5
A new route to 5–substituted resorcinols and related systems, 170–5
Branched–chain sugars. Part 7. A route to sugars with two–carbon branches using 1–methoxyvinyllithium, 269–72
Branched–chain sugars. Part 8. The synthesis of C–acetylpyranosides and a pillarose derivative using 1–methoxyvinyllithium, 273–6
Free radical reactions of halogenated bridged polycyclic compounds. Part 18. The addition of chlorine and bromine to 1,2,3,4,7,7–hexachloro–5–methylnorbornadiene, 302–5
Polyfluoroalkyl derivatives of nitrogen. Part 44. The reactions of N–bromobis(trifluoromethyl)amine with open–chain 1,3–dienes and cyclohexene under ionic conditions, 372–7
Addition reactions of heterocyclic compounds. Part 72. Dimethyl acetylenedicarboxylate with 1,2,6,7,8,9–hexahydropyrrolo[3,2,1–jk]carbazole, 535–9
Addition reactions of benzo[b]thiophene. Part 1. Self–addition and addition of simple aromatic hydrocarbons, 677–85
Unusual regio– and stereochemistry in the reaction of methyl (E)– and (Z)–β–styryl sulfone with pyrrolidin–1–yl–4–tert–

ADDN(contd)
butylcyclohexene, 686–9
Ene-type reactions involving transfer of acyl groups. Addition of 4-phenyl-1,2,4-triazoline-3,5-dione to various unsaturated compounds, 843–5
Addition of free radicals to unsaturated systems. Part 23. Photochemical and thermal reactions of trifluoroiodomethane with but-2-ene and but-1-ene, 927–32
Synthetic study on several eremophilane sesquiterpenes using a common intermediate, 963–77
Reaction of monothio derivatives of 2-heteroarylideneindene-1,3(2H)-diones with quinones, 1070–5
Synthesis of 3-(polyacetoxyalkyl)pyrroles from 3-aminocrotonic esters and open-chain sugar nitro olefins, 1199–205
The chemistry of o-phenylene di-isothiocyanate. Part 1. Some reactions with N-nucleophiles, 1240–4
Homolytic reaction of N-halosulfoximides with olefins and toluene 1257–61
Excited state substitution and addition reactions of aryl fluorides with aliphatic amines, 1393–9
Polyfluoroalkyl derivatives of nitrogen. Part 48. The addition of N-haloamines $(CF_3)_2NX$ to cyclohexa-1,3- and -1,4-dienes; a new synthesis of NN-bis(trifluoromethyl)aniline, 1544–50
Ketene. Part 17. Addition reactions of ketenes with N-phenyl nitrones, 1700–5
Reactions between 3-nitrochromone and diazo alkanes; Michael additions catalyzed by diazo alkanes as nitrogen bases, 2049–53
Preparation and some reactions of 2-oxatricyclo[3.3.0.$0^{4,6}$]oct-7-en-3-one: synthesis of 9-deoxa-9,10-dehydroprostaglandin D_2, 2093–7
A study of the reaction between the dichloromethylphosphine-aluminum chloride complex and terpenes. Part 2. Reaction of the dichloromethylphosphine-aluminum chloride complex and camphene, and an x-ray crystallographic study of the products, 2136–40
Chain-extension reactions of acetylenes. Part 4. Reaction of 1,3-dilithioacetylides with carbonyl electrophiles, hexamethylphosphoric triamide, and benzylideneaniline, 2338–45
Conjugate, homoconjugate, and 1,2-additions of acetylene nucleophiles and their application to prostaglandin synthesis, 2346–52
Enamidines. Part 1. Synthesis of enamidines and dihydrotriazines by the reaction of organolithium and organomagnesium compounds with aromatic nitriles, 2392–7
Synthetic applications of N–N linked heterocycles. Part 8. Regiospecific synthesis of 4-(α-acylalkyl) pyridines by attack of lithium enolates of ketones γ to N-(2,6-dimethyl-4-oxopyridin-1-yl)pyridinium salts, 2458–62
Friedel–Crafts reactions of some vinylsilanes, 2485–9
Synthesis of 2,4-diazabicyclo[3.3.0]octane-3,7-diones and 3-thioxo-2,4-diazabicyclo[3.3.0]octan-7-one by an intramolecular Michael-type reaction. Stability of 2,4-diaza-, 4-oxa-2-aza-, and 4-thia-2-aza-bicyclo[3.3.0]octane-3,7-diones, 2497–502
Heterocyclic polyfluoro compounds. Part 33. Competing 1,2- and 1,4-photochemical addition of hexafluorobiacetyl to 1,2-difluoroethylene, 2523–6
Addition of thallium triacetate to $PGF_{2\alpha}$ methyl ester and related compounds in acetic acid. Nuclear magnetic resonance spectral study of novel dioxatricyclic and oxabicyclic products, 2572–80
Catalytic and noncatalytic addition of aromatic amines to terminal acetylenes in the presence of mercury(II) chloride and acetate, 2732–7

ADDUCT
Unsaturated steroids. Part 10. The mechanism of the anthrasteroid rearrangement: the conformation of anthrasteroids, 1779–81
Benzocyclobutenes. Part 4. Synthesis of benzocyclobutene-1,2-diones by pyrolytic methods, 1834–40
Benzocyclobutenes. Part 5. Synthesis of 4-hydroxy-, 4,5-dihydroxy-, and 3,6-dihydroxy-benzocyclobutene-1,2-dione (benzologs of semisquaric and squaric acid), 1841–6
A study of the reaction between the dichloromethylphosphine-aluminum chloride complex and terpenes. Part 2. Reaction of the dichloromethylphosphine-aluminum chloride complex and camphene, and an x-ray crystallographic study of the products, 2136–40

ADENINE
Purines, pyrimidines and imidazoles. Pasrt 52. New syntheses of some 1-β-D-arabinofuranosylaminoimidazoles and of related purine nucleosides, including 9-β-D-arabinofuranosyladenine, 2304–9
Purines, pyrimidines, and imidazoles. Part 56. Some aminoimidazolecarboxamidines and derived adenines, 2728–31

ADRIAMYCIN
A new synthetic approach towards adriamycin, 643–7

AERIAL
Preparation and properties of tertiary p-alkylarylphosphines containing straight-chain alkyl groups, 2233–7

AFROSIDE
Stereochemistry of the hexosulose in cardenolide glycosides of the Asclepiadaceae, 2162–8

AGGREGATION
Heterocyclic prostaglandin analogs. Part 2. Hydantoins and other imidazole analogs, 495–505

AGONIST
Isoxazole amino-acids as glutamic acid agonists. Synthesis of some analogs and homologs of ibotenic acid, 1826–33

ALANE
Conjugate, homoconjugate, and 1,2-additions of acetylene nucleophiles and their application to prostaglandin synthesis, 2346–52

ALANYLLEUCYLGLYCYL
Synthesis and conformation in the solid state of oligopeptides with the L-alanyl-L-leucylglycyl sequence in which some glycines are replaced with N-methylglycines, 2808–11

ALC
Alkyloxytris(dimethylamino)phosphonium salts. Part 21. Anomeric hydroxy-group activation of 2,3:4,6-di-O-isopropylidene-α-D-mannopyranose, thioglycosylation, and glycosylation, 381–4
Benzodioxanes by oxidative phenol coupling. Synthesis of silybin, 775–8
Radical-initiated reduction of chloroformates to alkanes by tri-n-propylsilane. A method for removal of unwanted hydroxy-groups from organic molecules, 1207–11
Preparation and stereochemistry of some 1,1-disubstituted buta-1,3-dienes, 1756–60
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 13. A novel synthesis of benzyl ethers, 2184–90
Synthesis and reactions of tert-butyltellurocarbonyloxy alkanes, 2191–5
Utilization of sulfur-containing leaving groups. Part 2. Monitored reduction of carboxylic acids into alcohols or aldehydes via 3-acylthiazolidine-2thiones by sodium borohydride or diisobutylaluminum hydride, 2470–3
The chemistry of o-phenylenediisothiocyanate. Part 3. Studies on the syntheses of heterocyclic compounds, 2608–11

ALCOHOLYSIS
Reactions between 3-nitrochromone and diazo alkanes; Michael additions catalyzed by diazo alkanes as nitrogen bases, 2049–53

ALDEHYDE
Metal-assisted reactions. Part 8. Selectivity in the reactions of organic halides with tetrahydroborate and the reduction of acyl halides to aldehydes, 27–30
Formylation and acylation reactions catalyzed by trifluoromethanesulfonic acid, 181–6
Reactions of coordinated ligands. Part 8. Reaction of Grignard reagents with 2-alkoxy-1,3-dioxolanes; an improved route to aldehydes, 756–8
Isomerization of 2-aryl-4-oxo-2,3-dihydrobenzopyrano[2,3-d]pyrimidines to 2-aryl-4-hydroxy-5H-benzopyrano[2,3-d]pyrimidines, 1335–7
Calciferol and its relatives. Part 27. A synthesis of 1α-hydroxyvitamin D_3 by way of 1α-hydroxytachysterol$_3$, 1400–4
Base catalyzed rearrangements involving ylide intermediates. part 6. The rearrangements of diallyl- and allylpropynylammonium cations in protic media, 1477–86
New olefin and oxirane syntheses from carbonyl compounds, and diethyl sodiophosphonate anions and 1-aminophosphonate amino-anions, 1731–8
Synthesis and reactions of 5-arylamino-1,2,4-trioxanes, 2300–3
Utilization of sulfur-containing leaving groups. Part 2. Monitored reduction of carboxylic acids into alcohols or aldehydes via 3-acylthiazolidine-2thiones by sodium borohydride or diisobutylaluminum hydride, 2470–3
Polymer-supported phosphonates. Olefins from aldehydes, ketones, and dioxolanes by means of polymer-supported phosphonates, 2516–19
Mechanism of diol formation in the reaction of benzylic Grignard reagents with aldehydes, 2631–6

ALDEHYDE(contd)
New dyes based on 3-arylbenzo- and -naphtho-1,4-thiazines, 2923–32
ALDER
Partially fluorinated heterocyclic compounds. Part 12. Novel internal Diels–Alder adducts via Claisen rearrangement intermediates from tetrafluoro-4- and -3-pyridyl prop-2-enyl ethers. Syntheses of tetrafluoro-3-aza- and -4-aza-tricyclo[3.3.1.0^{2,7}]non-3-en-6-one, 102–6
Studies related to anthracyclines. Part 1. Some Diels–Alder reactions of 4a,9a-epoxy-4a,9a-dihydroanthracene-1,4,9,10-tetrone, 1907–12
Polyfluoroalkyl derivatives of nitrogen. Part 48. The addition of N-haloamines $(CF_3)_2NX$ to cyclohexa-1,3- and -1,4-dienes; a new synthesis of NN-bis(trifluoromethyl)aniline, 1544–50
Stereochemistry of Diels–Alder reactions of allenic sulfones; transfer of asymmetry from allenic to norbornene systems, 1646–9
Benzocyclobutenes. Part 4. Synthesis of benzocyclobutene-1,2-diones by pyrolytic methods, 1834–40
Polyfluoroalkyl derivatives of nitrogen. Part 49. Ene reactions of trifluoronitrosomethane: formation of N-trifluoromethylhydroxylamines, 1960–4
Studies on the syntheses of heterocyclic compounds. Part 855. Cycloaddition reaction of bis(trimethylsilyl)allenedicarboxylate with homocyclic dienes, 2801–4
ALDOL
Synthetic study on several eremophilane sesquiterpenes using a common intermediate, 963–77
ALDOSTERONE
18-Substituted steroids. Part 6. Synthe'is of 3α,18-dihydroxy-11β,18-epoxy-5β-pregnan-20-one(21-deoxy-3α,5β-tetrahydroaldosterone), 2597–607
18-Substituted steroids. Part 7. Synthesis and structure of 11β,18-epoxy-3α,18,21-trihydroxy-5β-pregnan-20-one (3α,5β-tetrahydroaldosterone), 2818–29
ALICYCLIC
Chiroptical studies. Part 96. Short wavelength (190 nm) circular dichroism of ketones, 787–803
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 14. A useful radical–deamination reaction, 2657–64
ALIPH
Pyrazines. Part 5. Preparation of 3,8-diazabicyclo[3.2.1]octane-2,4-dione derivatives, 1603–6
The photoreactions of pyridine and 2-fluoropyridine with aliphatic amines, 2531–4
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 14. A useful radical–deamination reaction, 2657–64
ALKADIENAMINE
1,3-Dipolar character of six-membered aromatic rings. Part 48. Novel conversions of pyridines to isoquinolines, 331–42
ALKADIENE
1,3-Dipolar character of six-membered aromatic rings. Part 51. Cycloadditions of 1-(β-benzoylvinyl)-3-oxidopyridiniums and subsequent transformations, 362–71
Polyfluoroalkyl derivatives of nitrogen. Part 44. The reactions of N-bromobis(trifluoromethyl)amine with open-chain 1,3-dienes and cyclohexene under ionic conditions, 372–7
Base catalyzed rearrangements involving ylide intermediates. part 6. The rearrangements of diallyl- and allylpropynylammonium cations in protic media, 1477–86
Preparation and stereochemistry of some 1,1-disubstituted buta-1,3-dienes, 1756–60
Oxymetalation. Part 12. Further syntheses of monocyclic peroxides via peroxymercuriation, 2450–7
ALKALOID
Photocyclization of enamides. Part 15. Syntheses of the basic structures of corynoline and related alkaloids, 203–7
Photocyclization of enamides. Part 17. Total synthesis of (±)-corynoline, (±)-12-hydroxycorynoline, and (±)-11-epicorynoline, 212–16
Tabernaelegantinines C and D, two new bisindole alkaloids containing a cyano group from Tabernaemontana elegans Stapf. Part 2, 601–6
Alkaloid formation through N-oxide intermediates; regioselective synthesis of (±)-corytuberine by redox reaction, 629–32
Applications of substituted arylacetaldehydes in the total synthesis of seco-mesembrane alkaloids. Part 1. The total synthesis of (±)-O-methyljoubertiamine, 906–10
Quinoline alkaloids. Part 19. Synthesis of O-methylptelefolonium iodide and (±)-dubinidine, 1136–8
Crystal and molecular structure of amarorine monohydrate, a new phenolic alkaloid from Amaroria soulameoides, 1614–17
Structure of aristone, a unique indole alkaloid from Aristotelia chilensis (Mol.) Stuntz, by x-ray crystallographic analysis, 2842–4
Synthetic studies towards complex diterpenoids. Part 13. Stereospecific synthesis of intermediates to the diterpene alkaloids and the C_{20}-gibberellins by a novel rearrangement of angularly fused cyclobutanones, 2881–6
ALKANE
Reactions between 3-nitrochromone and diazo alkanes; Michael additions catalyzed by diazo alkanes as nitrogen bases, 2049–53
Synthesis and reactions of tert-butyltellurocarbonyloxy alkanes, 2191–5
Reductive deamination of primary amines, 2554–60
ALKANONE
Synthetic applications of N-N linked heterocycles. Part 8. Regiospecific synthesis of 4-(α-acylalkyl) pyridines by attack of lithium enolates of ketones γ to N-(2,6-dimethyl-4-oxopyridin-1-yl)pyridinium salts, 2458–62
ALKATHIENE
Preparation and dienophilic reactions of nitrosyl cyanide, 1587–91
ALKENE
Cyclopropane chemistry. Part 4. The reactions of 1,2,2-trifluoroethylidene with alkenes and pyrolysis of the resulting cyclopropanes, 314–24
1,3-Dipolar character of six-membered aromatic rings. Part 51. Cycloadditions of 1-(β-benzoylvinyl)-3-oxidopyridiniums and subsequent transformations, 362–71
Metal-catalyzed organic photoreactions. Evidence for the long-range electron-transfer mechanism in the uranyl- or iron(III)-catalyzed photoreactions of olefins, 947–9
The influence of chain-branching on the steric outcome of some olefin-forming reactions, 1045–50
The photochemical reaction of benzene with ethylenes: studies with allyl compounds, enamines, vinyl sulfide, and 5,6-dichlorobicyclo[2.2.1]hept-2-ene, 1225–9
Homolytic reaction of N-halosulfoximides with olefins and toluene 1257–61
Unsaturated carbohydrates. Part 22. Alkenes from 5-bromohexopyranose derivatives, 1535–9
Pyrazines. Part 5. Preparation of 3,8-diazabicyclo[3.2.1]octane-2,4-dione derivatives, 1603–6
New olefin and oxirane syntheses from carbonyl compounds, and diethyl sodiophosphonate anions and 1-aminophosphonate amino-anions, 1731–8
Reaction of 1,2,4,5-tetroxan with antimony pentachloride or liquid sulfur dioxide: heterolytic fission of carbon–oxygen or oxygen–oxygen bonds, 1950–4
Polyfluoroalkyl derivatives of nitrogen. Part 49. Ene reactions of trifluoronitrosomethane: formation of N-trifluoromethylhydroxylamines, 1960–4
Stable carbocations. Part 22. Stereochemistry of the deprotonation of ferrocenylalkylium ions, and of the protonation of alkenylferrocenes, 2213–17
Heterocyclic polyfluoro-compounds. Part 33. Photochemical oxetane formation from fluoro ketones and perfluoro aldehydes and 1,2-difluoroethylene, 2258–67
ALKENONE
β-Silylcarbonyl compounds as masked enones, 1493–8
ALKENYL
Polyfluoroalkyl derivatives of nitrogen. Part 49. Ene reactions of trifluoronitrosomethane: formation of N-trifluoromethylhydroxylamines, 1960–4
Oxymetalation. Part 12. Further syntheses of monocyclic peroxides via peroxymercuriation, 2450–7
ALKENYLATION
Photolytic conversion of some bicyclo[3.2.0]heptanones into 3-hydroxy- or 3-methoxy-2-oxabicyclo[3.3.0]octan-2-ones, 1583–6
ALKENYLFLUOROMETHYLHYDROXYLAMINE
Polyfluoroalkyl derivatives of nitrogen. Part 49. Ene reactions of trifluoronitrosomethane: formation of N-trifluoromethylhydroxylamines, 1960–4

ALKENYLTHIENYLDIAZOALKANE
The synthesis of 1H- and 5H-thieno[1,2]diazepines by the electrocyclization of α-(2-alkenylthienyl)diazoalkanes, and some observations on their photochemical reactivity and ring inversion 1718-22
ALKOXY
Reactions of coordinated ligands. Part 8. Reaction of Grignard reagents with 2-alkoxy-1,3-dioxolanes; an improved route to aldehydes, 756-8
Studies on tetrahydroisoquinolines. Part 14. A synthesis of 4-alkoxyaporphines, 1165-8
Chemistry of O-alkyl selenoesters. Reaction with triethylphosphine 1627-34
Total synthesis of β-lactamase inhibitors based on the 4-oxa-1-azabicyclo[3.2.0]heptan-7-one ring system, 2222-7
ALKOXYALKYL
Chemistry of O-alkyl selenoesters. Reaction with triethylphosphine 1627-34
ALKOXYALKYLETHYLPHOSPHONIUM
Chemistry of O-alkyl selenoesters. Reaction with triethylphosphine 1627-34
ALKOXYAPORPHINE
Studies on tetrahydroisoquinolines. Part 14. A synthesis of 4-alkoxyaporphines, 1165-8
ALKOXYAZETIDINONE
Total synthesis of β-lactamase inhibitors based on the 4-oxa-1-azabicyclo[3.2.0]heptan-7-one ring system, 2222-7
ALKOXYDIOXOLANE
Reactions of coordinated ligands. Part 8. Reaction of Grignard reagents with 2-alkoxy-1,3-dioxolanes; an improved route to aldehydes, 756-8
ALKOXYLATION
Studies on tetrahydroisoquinolines. Part 14. A synthesis of 4-alkoxyaporphines, 1165-8
ALKYL
Reactions of conjugated arylazocycloalkenes with Grignard reagents. Part 3. A convenient synthesis of 2,6-diaryl- and 2-alkyl-6-arylcyclohexanones, 240-3
Quinones. Part 9. Sidechain alkylthiolation of methyl-1,4-naphthoquinones, 282-8
Radical-initiated reduction of chloroformates to alkanes by tri-n-propylsilane. A method for removal of unwanted hydroxy-groups from organic molecules, 1207-11
Thermolysis of o-alkylnitrosobenzenes. Unusually ready [1,5] hydrogen shift involving a nitroso group, 1365-9
The conversion of aldehydes and ketones via their 2,4,6-triisopropylbenzenesulfonyl hydrazones into nitriles containing one additional carbon atom, 1487-92
Long-chain phenols. Part 16. A novel synthesis of homologous orsellinic acids and their methyl ethers, 1658-66
Improved methods for conversion of primary amines into bromides 1890-4
The synthesis and reactions of sterically constrained pyrylium and pyridinium salts, 1895-900
Convenient syntheses of alkyl β-resorcylate derivatives, 2272-7
Conjugate, homoconjugate, and 1,2-additions of acetylene nucleophiles and their application to prostaglandin synthesis, 2346-52
Reductive deamination of primary amines, 2554-60
Alkyltrifluoromethanesulfonates as alkylating reagents for aromatic compounds, 2887-94
The preparation of primary alkyl and benzyl fluorides from the corresponding primary amines, 2901-3
ALKYLAMINE
Excited state substitution and addition reactions of aryl fluorides with aliphatic amines, 1393-9
ALKYLAMINO
Oxidation of enamine esters with lead tetraacetate. Part 1. Products from some N-alkylaminofumarates, 156-62
ALKYLAMINOAMINOMETHYLTRIAZOLE
Derivatives of 3H-1,2,3-triazolo[4,5-d][1,3]thiazine, a new heterocyclic nucleus. Some shifts of a methylene group from a nitrogen to a sulfur atom, 2009-12
ALKYLAMINOFUMARATE
Oxidation of enamine esters with lead tetraacetate. Part 1. Products from some N-alkylaminofumarates, 156-62
ALKYLARYLAMINO
Light-induced reactions of 2-(N-alkyl-N-arylamino)acetophenones and related amino ketones: formation of 1,3-diarylazetidin-3-ols, 1671-8
ALKYLARYLPHOSPHINE
Preparation and properties of tertiary p-alkylarylphosphines containing straight-chain alkyl groups, 2233-7
ALKYLATION
Reactions of conjugated arylazocycloalkenes with Grignard reagents. Part 3. A convenient synthesis of 2,6-diaryl- and 2-alkyl-6-arylcyclohexanones, 240-3
Studies related to penicillins. Part 19. Alkylations of (3R-3-((1S,5R)-3-benzyl-7-oxo-4-oxa-2,6-diazabicyclo[3.2.0]hept-2-en-6-yl)-4,4-dimethylthietan-2-one, 388-94
The S-alkylation of sulfides by an activated carbohydrate epimine under acidic catalysis: the formation of α-acetamido-sulfides. Part 4. Reactions with dithioacetals and monothioacetals, 540-52
Transformations involving the pyrrolidine ring of nicotine, 579-85
Alkylidene transfer from (monochloroalkyl)mercury(II) compounds to aromatic amines; selective C-alkylation, 1420-6
Intramolecular alkylation of phenols. Part 5. A regiospecific anionic ring closure of phenols via quinone methides, 1567-77
7-Alkylation and 7-sulfonylation of 5,6-dihydroimidazolo[2,1-b]thiazoles, 1773-8
Regioselective nucleophilic addition of organolithium compounds to 3-(4,4-dimethyloxazolin-2-yl)pyridine, 2070-6
1,3,4,5-Tetrahydrobenz[cd]indoles and related compounds. Part IV. Experiments towards the synthesis of the ergot alkaloids and related structures. Part 2. New alkylations on α-carbon and nitrogen in α-amido ketones, 2126-33
Heterocyclic polyfluoro-compounds. Part 32. Perfluoroalkylation of trifluoro-1,2,4-triazine, 2254-7
Synthesis and some reactions of 3,4,5,6-tetrahydro-3,6-dimethyl-2,6-methano-3-benzazocin-1(2H)-one (2,5-dimethyl-8-oxo-6,7-benzomorphan), 2374-9
The chemistry of o-phenylenediisothiocyanate. Part 3. Studies on the syntheses of heterocyclic compounds, 2608-11
Lithium ketene thioacetalides. Factors influencing α- versus γ-alkylation, 2678-82
Alkyltrifluoromethanesulfonates as alkylating reagents for aromatic compounds, 2887-94
Steric effects in the ring expansion of coumarins by 2-diazopropane and tert-butyldiazomethane, 2937-42
ALKYLBENZENE
Formylation and acylation reactions catalyzed by trifluoromethanesulfonic acid, 181-6
ALKYLDIHYDROPYRIDINE
Reductive deamination of primary amines, 2554-60
ALKYLIDENE
Alkylidene transfer from (monochloroalkyl)mercury(II) compounds to aromatic amines; selective C-alkylation, 1420-6
ALKYLMETHYLANILINE
Oxidation of aryldialkylamines with cerium(IV) ammonium nitrate and thallium(III) nitrate, 828-32
ALKYLNITROSOBENZENE
Thermolysis of o-alkylnitrosobenzenes. Unusually ready [1,5] hydrogen shift involving a nitroso group, 1365-9
ALKYLOXAZOLINYLPYRIDINE
Regioselective nucleophilic addition of organolithium compounds to 3-(4,4-dimethyloxazolin-2-yl)pyridine, 2070-6
ALKYLPHENYL
Studies on the preparation of N-alkyl-O-phenylhydroxylamines, 2781-6
ALKYLPHENYLHYDROXYLAMINE
Studies on the preparation of N-alkyl-O-phenylhydroxylamines, 2781-6
ALKYLPYRIDINIUM
Improved methods for conversion of primary amines into bromides 1890-4
ALKYLSULFOXIMIDE
Homolytic reaction of N-halosulfoximides with olefins and toluene 1257-61
ALKYLTETRAPHENYLDIHYDROPYRIDINE
Reductive deamination of primary amines, 2554-60
ALKYLTHIOLATION
Quinones. Part 9. Sidechain alkylthiolation of methyl-1,4-naphthoquinones, 282-8
ALKYLTRIAZINE
Heterocyclic polyfluoro-compounds. Part 32. Perfluoroalkylation of trifluoro-1,2,4-triazine, 2254-7
ALKYNE
Regio- and stereo-selectivity of acetoxymercuration of acetylenes.

ALKYNE(contd)
1098–103
Reactions of the sodium salts of some heterocyclic β-ketoesters with dimethyl acetylenedicarboxylate, 1251–6
Alkynyl- and dialkylnylquinoxalines. Synthesis of condensed quinoxalines, 1384–9
Pyrazines. Part 5. Preparation of 3,8-diazabicyclo[3.2.1]octane-2,4-dione derivatives, 1603–6
ALKYNECARBOXYLATE
Ring-expansion of carbocyclic β-ketoesters with acetylenic esters, 1245–50
ALKYNEDIOL
Chain-extension reactions of acetylenes. Part 4. Reaction of 1,3-dilithioacetylides with carbonyl electrophiles, hexamethylphosphoric triamide, and benzylideneaniline, 2338–45
ALKYNYL
Alkynyl- and dialkylnylquinoxalines. Synthesis of condensed quinoxalines, 1384–9
ALKYNYLALANE
Conjugate, homoconjugate, and 1,2-additions of acetylene nucleophiles and their application to prostaglandin synthesis, 2346–52
ALKYNYLQUINOXALINE
Alkynyl- and dialkylnylquinoxalines. Synthesis of condensed quinoxalines, 1384–9
ALLENEDICARBOXYLATE
Studies on the syntheses of heterocyclic compounds. Part 855. Cycloaddition reaction of bis(trimethylsilyl)allenedicarboxylate with homocyclic dienes, 2801–4
ALLENEDICARBOXYLIC
Chain-extension reactions of acetylenes. Part 4. Reaction of 1,3-dilithioacetylides with carbonyl electrophiles, hexamethylphosphoric triamide, and benzylideneaniline, 2338–45
ALLENIC
Stereochemistry of Diels–Alder reactions of allenic sulfones; transfer of asymmetry from allenic to norbornene systems, 1646–9
ALLYL
Base catalyzed rearrangements involving ylide intermediates. Part 3. A novel thermal [1,3]sigmatropic rearrangement, 1458–61
Base catalyzed rearrangements involving ylide intermediates. part 6. The rearrangements of diallyl- and allylpropynylammonium cations in protic media, 1477–86
ALLYLAMMONIUM
Base catalyzed rearrangements involving ylide intermediates. Part 1. The rearrangements of diallyl- and allylpropynylammonium cations, 1436–49
ALLYLGLYOXIMATOPYRIDINECOBALT
Formation of allyl and cyclopropylcarbinyl sulfides in the regiospecific reactions of arenesulfenyl chlorides with allyl- and but-3-enylcobaloximes, 2021–5
ALLYLIC
Base catalyzed rearrangements involving ylide intermediates. Part 2. The Stevens [1,2] and [3,2] sigmatropic rearrangements of allylic ammonium ylides, 1450–7
Preparation and stereochemistry of some 1,1-disubstituted buta-1,3-dienes, 1756–60
Microbiological transformations. Part 3. The oxidation of androstene derivatives with the fungus Cunninghamella elegans, 2535–41
ALLYLPRENYLGALACTOPYRANOSIDE
The allyl ether as a protecting group in carbohydrate chemistry. Part 11. The 3-methylbut-2-enyl ('prenyl') group, 738–40
ALLYLPROPYNYLAMMONIUM
Base catalyzed rearrangements involving ylide intermediates. Part 1. The rearrangements of diallyl- and allylpropynylammonium cations, 1436–49
Base catalyzed rearrangements involving ylide intermediates. part 6. The rearrangements of diallyl- and allylpropynylammonium cations in protic media, 1477–86
ALPHA
Lithium ketene thioacetalides. Factors influencing α- versus γ-alkylation, 2678–82
ALUMINUM
Addition reactions of benzo[b]thiophene. Part 1. Self-addition and addition of simple aromatic hydrocarbons, 677–85
AMARORIA
Crystal and molecular structure of amarorine monohydrate, a new phenolic alkaloid from Amaroria soulameoides, 1614–17
AMARORIDINE
Crystal and molecular structure of amarorine monohydrate, a new phenolic alkaloid from Amaroria soulameoides, 1614–17
AMARORINE
Crystal and molecular structure of amarorine monohydrate, a new phenolic alkaloid from Amaroria soulameoides, 1614–17
AMASTATIN
Regio- and stereospecific synthesis in threo-3-amino-2-hydroxy acids, novel amino acids contained in aminopeptidase inhibitors of microbial origin, 1618–21
AMBONANE
Structure and synthesis of isoflavonoid analogs from Neorautanenia amboensis Schinz, 1804–9
AMBONONE
Structure and synthesis of isoflavonoid analogs from Neorautanenia amboensis Schinz, 1804–9
AMIDE
Studies of lysergic acid diethylamide and related compounds. Part 8. Structural identification of new metabolites of lysergic acid diethylamide obtained by microbial transformation using Streptomyces roseochromogenes, 902–5
Oxidative coupling of phenols and phenolic ethers. Part 4. Synthesis of dibenz[d,f]azonines and a dibenz[d,f]azecine via direct coupling, 1104–8
A novel reduction of activated olefins by lithium amides, 1267–9
Purines, pyrimidines, and imidazoles. Part 54. Interconversion of some intermediates in the de novo biosynthesis of purine nucleotides, 2316–21
AMIDECARBOXYLATE
Synthesis of N-hydroxymaleimide and N-hydroxyitaconimide and their related derivatives, 2122–5
AMIDO
1,3,4,5-Tetrahydrobenz[cd]indoles and related compounds. Part IV. Experiments towards the synthesis of the ergot alkaloids and related structures. Part 2. New alkylations on α-carbon and nitrogen in α-amido ketones, 2126–33
AMINATION
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 12. A study of cyclic iminocarbonates, 1124–31
Heterocycles in organic synthesis. Part 13. The reaction of 2,4-diphenylthiopyrylium perchlorate with amines, 1345–6
Regio- and stereospecific synthesis in threo-3-amino-2-hydroxy acids, novel amino acids contained in aminopeptidase inhibitors of microbial origin, 1618–21
Derivatives of 3H-1,2,3-triazolo[4,5-d][1,3]thiazine, a new heterocyclic nucleus. Some shifts of a methylene group from a nitrogen to a sulfur atom, 2009–12
Reaction of 6-bromobenzocyclohepten-5-one with amines, 2077–80
Synthesis and properties of 5-bromocyclohepta[b]furan-4-one, 2081–3
Novel conversions of benzo[b]thiophen-3(2H)-ones into 1,2-benzisothiazole and tetrahydro-1,2-benzothiazepin-5-one systems via sulfimide intermediates, 2830–4
AMINE
Photochemical reactions of amines on nitrophenazines. Part 2. Photoreduction versus photosubstitution, 191–6
A general and practicable synthesis of polycyclic heteroaromatic compounds. Part 1. Use of a putative quinolone-quinone-methide in the synthesis of polycyclic heteroaromatic compounds 512–21
A general and practicable synthesis of polycyclic heteroaromatic compounds. Part 2. Reaction of quinone-methides of pyridones, pyrimidines, coumarin, and benzene with aromatic amines in a novel synthesis of polycyclic heteroaromatic compounds, 522–8
Oxidation of aryldialkylamines with cerium(IV) ammonium nitrate and thallium(II) nitrate, 828–32
Heterocycles in organic synthesis. Part 42. Preparation of azides, phthalimides, and sulfonamides from primary amines, 849–50
Synthesis of 5,6-dihydro-4H-1,3,5-dithiazines, 2,3-dihydro-6-thioxo-6H-1,3-thiazine, and 6-amino-1,3-dithiins, 1038–44
The chemistry of o-phenylene di-isothiocyanate. Part 1. Some reactions with N-nucleophiles, 1240–4
Heterocycles in organic synthesis. Part 13. The reaction of 2,4-diphenylthiopyrylium perchlorate with amines, 1345–6
Alkynyl- and dialkylnylquinoxalines. Synthesis of condensed quinoxalines, 1384–9
Excited state substitution and addition reactions of aryl fluorides with aliphatic amines, 1393–9

AMINE(contd)
Alkylidene transfer from (monochloroalkyl)mercury(II) compounds to aromatic amines; selective C-alkylation, 1420–6
Base catalyzed rearrangements involving ylide intermediates. Part 2. The Stevens [1,2] and [3,2] sigmatropic rearrangements of allylic ammonium ylides, 1450–7
Base catalyzed rearrangements involving ylide intermediates. Part 3. A novel thermal [1,3]sigmatropic rearrangement, 1458–61
Base catalyzed rearrangements involving ylide intermediates. part 6. The rearrangements of diallyl- and allylpropynylammonium cations in protic media, 1477–86
Reactions involving fluoride ion. Part 20. Competition between isomerization and nucleophilic attack on a perfluoroalkene, 1551–4
The synthesis and reactions of sterically constrained pyrylium and pyridinium salts, 1895–900
The thermolysis of polyazapentadienes. Part 1. 1,5-Diaryl-1,2,5-triaza derivatives, 2200–4
Synthesis and reactions of 5-arylamino-1,2,4-trioxanes, 2300–3
The photoreactions of pyridine and 2-fluoropyridine with aliphatic amines, 2531–4
Reductive deamination of primary amines, 2554–60
Photoinduced reduction of fluoren-9-ol and its acetate by aliphatic amines, 2613–16
Condensation of $\alpha\beta$-unsaturated amines with perfluoroarenes, 2845–50
The preparation of primary alkyl and benzyl fluorides from the corresponding primary amines, 2901–3

AMINO
v-Triazolines. Part 12. Synthesis of 5-amino-1-aryl-4-methylene-4,5-dihydro-v-triazoles, 141–5
New steroidal heterocycles: the synthesis and structure of androsteno[2,3-g]-, androstano[3,2-f]-, and androsteno[16,17-g]pyrazolo[1,5-a]pyrimidines, 481–6
2-Imidazolines. Part 2. Pyrolysis of 1-acyl-4,5-diamino-4,5-dihydroimidazoles: a novel pyrimidine synthesis, 722–7
Synthesis of heterocyclic compounds via enamines. Part 8. Acid-catalyzed transformations in 4,4,6-trimethyl-1,4-dihydropyrimidine-2(3H)-thione derivatives and related compounds, 1013–18
New steroidal heterocycles: synthesis and structure of androst-2-eno[2,3-g](tetrazolo[1,5-a]pyrimidines), androst-4-eno[3,2-f](tetrazolo[1,5-a]pyrimidine), and androstano[17,16-f](tetrazolo[1,5-a]pyrimidines), 1019–24
Synthesis of 5,6-dihydro-4H-1,3,5-dithiazines, 2,3-dihydro-6-thioxo-6H-1,3-thiazine, and 6-amino-1,3-dithiins, 1038–44
The structure of bonellin and its derivatives. Unique physiologically active chlorins from the marine echurian Bonellia viridis, 1080–9
Bicyclic heterocycles with nitrogen at the ring junction. Part 2. Application of the Dakin–West reaction to the synthesis of imidazo[5,1-f]-1,2,4-triazin-4(3H)-ones, 1139–46
Heterocycles in organic synthesis. Part 13. The reaction of 2,4-diphenylthiopyrylium perchlorate with amines, 1345–6
Excited state substitution and addition reactions of aryl fluorides with aliphatic amines, 1393–9
Base catalyzed rearrangements involving ylide intermediates. Part 5. Thermal rearrangements of 3-dimethylaminohex-5-en-1-ynes, 1473–6
Polyfluoroalkyl derivatives of nitrogen. Part 48. The addition of N-haloamines $(CF_3)_2NX$ to cyclohexa-1,3- and -1,4-dienes; a new synthesis of NN-bis(trifluoromethyl)aniline, 1544–50
Regio- and stereospecific synthesis in threo-3-amino-2-hydroxy acids, novel amino acids contained in aminopeptidase inhibitors of microbial origin, 1618–21
The reaction of para-substituted β-aminocinnamonitriles with benzonitrile oxides, 1635–40
New olefin and oxirane syntheses from carbonyl compounds, and diethyl sodiophosphonate anions and 1-aminophosphonate amino-anions, 1731–8
Isoxazole amino-acids as glutamic acid agonists. Synthesis of some analogs and homologs of ibotenic acid, 1826–33
New steroidal heterocycles: androstano[3,2-b](pyrimido[1,2-a]benzimidazoles), 1859–61
Synthesis and properties of 5-bromocyclohepta[b]furan-4-one, 2081–3
Base-catalyzed reactions of α-bromo-N-benzylpropionamide and -isobutyramide. Formation of 2-aminooxazolidinones, 2249–53
Syntheses of 1- and 6-S- and 1- and 6-Se-derivatives of 2-amino-2-deoxy-α/β-D-glucopyranose, 2287–93
Synthesis and reactions of 5-arylamino-1,2,4-trioxanes, 2300–3
Synthetic studies in the α-kainic acid (2,3-trans,3,4-cis-2-carboxy-4-isopropenylpyrrolidin-3-ylacetic acid) series, 2542–8
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 15. The selective modification of neamine by radical-induced deamination, 2665–9
Polyhaloaromatic compounds. Part 44. Reactions of enamines with polyhalopyridines and their N-oxides, 2709–16
Inhibitors of pyrimidine biosynthesis. Part 1. Synthesis of potential transition-state analogs of aspartate transcarbamylase, 2721–7
Purines, pyrimidines, and imidazoles. Part 56. Some aminoimidazole-carboxamidines and derived adenines, 2728–31
v-Triazolo[4,5-d]pyrimidines (8-azapurines). Part 22. Synthesis of 2-amino- and 2-oxo-derivatives of N-alkyl-1,6-dihydro-8-azapurines from the corresponding 4-amino-5-aminomethyl-1,2,3-triazoles, 2918–22
New dyes based on 3-arylbenzo- and -naphtho-1,4-thiazines, 2923–32

AMINOAMINOMETHYLTRIAZOLE
v-Triazolo[4,5-d]pyrimidines (8-azapurines). Part 22. Synthesis of 2-amino- and 2-oxo-derivatives of N-alkyl-1,6-dihydro-8-azapurines from the corresponding 4-amino-5-aminomethyl-1,2,3-triazoles, 2918–22

AMINOARYLMETHYLENETRIAZOLE
v-Triazolines. Part 12. Synthesis of 5-amino-1-aryl-4-methylene-4,5-dihydro-v-triazoles, 141–5

AMINOAZAPURINE
v-Triazolo[4,5-d]pyrimidines (8-azapurines). Part 22. Synthesis of 2-amino- and 2-oxo-derivatives of N-alkyl-1,6-dihydro-8-azapurines from the corresponding 4-amino-5-aminomethyl-1,2,3-triazoles, 2918–22

AMINOBENZIMIDAZOLE
New steroidal heterocycles: androstano[3,2-b](pyrimido[1,2-a]benzimidazoles), 1859–61
Synthesis and photolysis of azidobenzo[b]thiophenes, -benzothiazoles, -benzimidazoles, and -indazoles: novel 6,7-diaminobenzothiazoles, -benzimidazoles, and -indazoles and 6-diethylamino-8H-thiazolo[5,4-c]azepines, 2362–70

AMINOBENZOTHIAZOLE
Synthesis and photolysis of azidobenzo[b]thiophenes, -benzothiazoles, -benzimidazoles, and -indazoles: novel 6,7-diaminobenzothiazoles, -benzimidazoles, and -indazoles and 6-diethylamino-8H-thiazolo[5,4-c]azepines, 2362–70

AMINOBIPHENYL
2,2'-Bridged biphenyls with 12-membered heterocyclic bridging rings. Part 1. Tetrabenzo[b,d,h,j][1,6]diazacyclododecines, 107–12

AMINOCINNAMONITRILE
The reaction of para-substituted β-aminocinnamonitriles with benzonitrile oxides, 1635–40

AMINOCROTONIC
Synthesis of 3-(polyacetoxyalkyl)pyrroles from 3-aminocrotonic esters and open-chain sugar nitro olefins, 1199–205

AMINOCYANOCYANOMETHYLPYRAZOLE
New steroidal heterocycles: the synthesis and structure of androsteno[2,3-g]-, androstano[3,2-f]-, and androsteno[16,17-g]pyrazolo[1,5-a]pyrimidines, 481–6

AMINOCYANOPYRAZOLE
New steroidal heterocycles: the synthesis and structure of androsteno[2,3-g]-, androstano[3,2-f]-, and androsteno[16,17-g]pyrazolo[1,5-a]pyrimidines, 481–6

AMINOCYCLOHEPTAFURANONE
Synthesis and properties of 5-bromocyclohepta[b]furan-4-one, 2081–3

AMINOCYCLOHEXENE
Polyhaloaromatic compounds. Part 44. Reactions of enamines with polyhalopyridines and their N-oxides, 2709–16

AMINODEOXY
Syntheses of 1- and 6-S- and 1- and 6-Se-derivatives of 2-amino-2-deoxy-α/β-D-glucopyranose, 2287–93

AMINODEOXYGLUCOPYRANOSE
Syntheses of 1- and 6-S- and 1- and 6-Se-derivatives of 2-amino-2-deoxy-α/β-D-glucopyranose, 2287–93

AMINODITHIIN
Synthesis of 5,6-dihydro-4H-1,3,5-dithiazines, 2,3-dihydro-6-thioxo-6H-1,3-thiazine, and 6-amino-1,3-dithiins, 1038–44

AMINOETHOXYCARBONYLAMINOMETHYLTRIAZOLE
v-Triazolo[4,5-d]pyrimidines (8-azapurines). Part 22. Synthesis of 2-amino- and 2-oxo-derivatives of N-alkyl-1,6-dihydro-8-azapurines from the corresponding 4-amino-5-aminomethyl-

AMINOETHOXYCARBONYLAMINOMETHYLTRIAZOLE (contd)
1,2,3-triazoles, 2918–22
AMINOHYDROXYETHYLMETHYLTHIAZOLE
Bacteriostatic activity of fluoro analogs of 5-(2-hydroxyethyl)-4-methylthiazole, a metabolic intermediate in the biosynthesis of thiamine, 2026–8
AMINOHYDROXYPHENYLBUTANOATE
Regio- and stereospecific synthesis in threo-3-amino-2-hydroxy acids, novel amino acids contained in aminopeptidase inhibitors of microbial origin, 1618–21
AMINOIMIDAZOLE
Purines, pyrimidines and imidazoles. Paart 52. New syntheses of some 1-β-D-arabinofuranosylaminoimidazoles and of related purine nucleosides, including 9-β-D-arabinofuranosyladenine, 2304–9
Purines, pyrimidines and imidazoles. Part 53. Synthesis of some 5-halo analogs of metiamide and cimetidine, 2310–15
Purines, pyrimidines, and imidazoles. Part 54. Interconversion of some intermediates in the de novo biosynthesis of purine nucleotides, 2316–21
Purines, pyrimidines, and imidazoles. Part 56. Some aminoimidazolecarboxamidines and derived adenines, 2728–31
AMINOINDAZOLE
Synthesis and photolysis of azidobenzo[b]thiophenes, -benzothiazoles, -benzimidazoles, and -indazoles: novel 6,7-diaminobenzothiazoles, -benzimidazoles, and -indazoles and 6-diethylamino-8H-thiazolo[5,4-c]azepines, 2362–70
AMINOMALONONITRILE
Purines, pyrimidines, and imidazoles. Part 56. Some aminoimidazolecarboxamidines and derived adenines, 2728–31
AMINOMERCAPTONAPHTHOQUINONE
New dyes based on 3-arylbenzo- and -naphtho-1,4-thiazines, 2923–32
AMINOOXAZOLIDINONE
Base-catalyzed reactions of α-bromo-N-benzylpropionamide and -isobutyramide. Formation of 2-aminooxazolidinones, 2249–53
AMINOOXYL
Nitroxide chemistry. Part 13. Reaction of NN-bis(trifluoromethyl)-amino-oxyl with hexafluoroisopropylideneimine and related compounds, 406–9
AMINOPENICILLIN
A method for the preparatiop of 7α-methoxycephalosporins, 1109–13
AMINOPHENYLALKENYNE
Base catalyzed rearrangements involving ylide intermediates. Part 5. Thermal rearrangements of 3-dimethylaminohex-5-en-1-ynes, 1473–6
AMINOPHENYLALLYL
Base catalyzed rearrangements involving ylide intermediates. Part 4. [1,3]Sigmatropic rearrangements of 4-dimethylaminobutenes and [3,3]sigmatropic rearrangements of 3-dimethylaminohexa-1,5-dienes, 1462–72
AMINOPHENYLALLYLFLUORENE
Base catalyzed rearrangements involving ylide intermediates. Part 4. [1,3]Sigmatropic rearrangements of 4-dimethylaminobutenes and [3,3]sigmatropic rearrangements of 3-dimethylaminohexa-1,5-dienes, 1462–72
AMINOPHOSPHONATE
New olefin and oxirane syntheses from carbonyl compounds, and diethyl sodiophosphonate anions and 1-aminophosphonate amino-anions, 1731–8
AMINOPYRAZOLE
New steroidal heterocycles: the synthesis and structure of androsteno[2,3-g]-, androstano[3,2-f]-, and androsteno[16,17-g]pyrazolo[1,5-a]pyrimidines, 481–6
AMINOPYRIDINE
Heterocycles in organic synthesis. Part 13. The reaction of 2,4-diphenylthiopyrylium perchlorate with amines, 1345–6
Purines, pyrimidines, and imidazoles. Part 54. Interconversion of some intermediates in the de novo biosynthesis of purine nucleotides, 2316–21
AMINOTETRAZOLE
New steroidal heterocycles: synthesis and structure of androst-2-eno[2,3-g](tetrazolo[1,5-a]pyrimidines), androst-4-eno[3,2-f](tetrazolo[1,5-a]pyrimidine), and androstano[17,16-f](tetrazolo[1,5-a]pyrimidines), 1019–24
AMINOTHIAZINE
Synthesis of heterocyclic compounds via enamines. Part 8. Acid-catalyzed transformations in 4,4,6-trimethyl-1,4-dihydropyrimidine-2(3H)-thione derivatives and related compounds, 1013–18
AMINOTRIOXANE
Synthesis and reactions of 5-arylamino-1,2,4-trioxanes, 2300–3
AMMONIUM
Base catalyzed rearrangements involving ylide intermediates. Part 2. The Stevens [1,2] and [3,2] sigmatropic rearrangements of allylic ammonium ylides, 1450–7
Base catalyzed rearrangements involving ylide intermediates. part 6. The rearrangements of diallyl- and allylpropynylammonium cations in protic media, 1477–86
Base catalyzed rearrangements involving ylide intermediates. Part 7. The rearrangements of allyl(pentadienyl)- and propynyl(pentadienyl)-ammonium cations. The [5,4] sigmatropic rearrangement, 2033–48
ANDROSTADIENE
Reactions of androsta-3,5-dienes with m-chloroperbenzoic acid, 2581–6
ANDROSTADIENEDIONE
The preparation and dienone–phenol rearrangement of androsta-2,5-diene-4,17-dione, 1311–13
ANDROSTANE
Reactions of androsta-3,5-dienes with m-chloroperbenzoic acid, 2581–6
ANDROSTANEDIOL
Acid-catalyzed reactions of 1α,2α-epoxy-1β-methyl- and 1α-hydroxy-1β-methyl 5α-steroids, 440–3
ANDROSTANONE
New steroidal heterocycles: the synthesis and structure of androsteno[2,3-g]-, androstano[3,2-f]-, and androsteno[16,17-g]pyrazolo[1,5-a]pyrimidines, 481–6
Microbiological hydroxylation. Part 23. Hydroxylations of fluoro-5α-androstanones by the fungi Calonectria decora, Rhizopus nigricans, and Aspergillus ochraceus, 750–5
Photo-induced transformations. Part 44. Formation of lactams in the photolysis of some steroidal acetylhydrazones in the presence of oxygen, 1356–64
Efficient synthesis of a pregnane-type steroid. Total synthesis of (+)-5α-dihydropregnenolone [(+)-3β-hydroxy-5α-pregnan-20-one], 2805–7
ANDROSTANOPYRAZOPYRIMIDINE
New steroidal heterocycles: the synthesis and structure of androsteno[2,3-g]-, androstano[3,2-f]-, and androsteno[16,17-g]pyrazolo[1,5-a]pyrimidines, 481–6
ANDROSTANOPYRIMIDOBENZIMIDAZOLE
New steroidal heterocycles: androstano[3,2-b](pyrimido[1,2-a]benzimidazoles), 1859–61
ANDROSTENE
The solvolysis of 4β-hydroxy-3β-p-tolylsulfonyloxyandrost-5-enes, 933–7
Microbiological transformations. Part 3. The oxidation of androstene derivatives with the fungus Cunninghamella elegans, 2535–41
ANDROSTENOAZIRINONE
Stereospecific transformations of steroidal 2,3-aziridines into substituted amino thiols and ring-A fused heterocycles, 766–74
ANDROSTENONE
Examination of the stereochemistry of hydrogenolysis of steroidal C-3 substituents using deuterium NMR spectroscopy, 1381–3
ANDROSTENOTETRAZOLOPYRIMIDINE
New steroidal heterocycles: synthesis and structure of androst-2-eno[2,3-g](tetrazolo[1,5-a]pyrimidines), androst-4-eno[3,2-f](tetrazolo[1,5-a]pyrimidine), and androstano[17,16-f](tetrazolo[1,5-a]pyrimidines), 1019–24
ANHYDRIDE
Oxidation of ketone and aldehyde hydrazones, oximes and semicarbazones, and of hydroxylamines, and hydrazo-compounds, using benzeneseleninic anhydride, 1212–17
Conversion of thiocarbonyl compounds into their corresponding oxo-derivatives using benzeneseleninic anhydride, 1650–3
Removal of thioacetal protecting groups by benzeneseleninic anhydride, 1654–7
New olefin and oxirane syntheses from carbonyl compounds, and diethyl sodiophosphonate anions and 1-aminophosphonate amino-anions, 1731–8
A new tricarboxylic acid anhydride from Paecilomyces variotii, 2134–5
Dehydrogenation of steroidal and triterpenoid ketones using benzeneseleninic anhydride, 2209–12

ANHYDROBONELLIN
The structure of bonellin and its derivatives. Unique physiologically active chlorins from the marine echurian Bonellia viridis, 1080–9
ANIL
Reactions of halomethanes in the vapor phase. Part 5. The reactions of imidazolines, anils, and 1-methylimidazole with chloroform at 550°C, and a comparison with their liquid-phase reactions with trichloroacetate ion or hexachloroacetone and base, 1431–5
ANILIDE
Photocyclization of enamides. Part 14. Substituent effects in the photocyclization of N-α,β-unsaturated acylanilides, 197–202
ANILINE
Heterocycles in organic synthesis. Part 36. An alternative to the Gattermann reaction for the conversion of anilines into thiocyanates, 865–8
A general and practicable synthesis of polycyclic heteroaromatic compounds. Part 3. Extension of the synthesis to 'quinone methides' of naphthalene, phenanthrene, and benzene, 1233–9
Some reactions of vinylene diisothiocyanate, 2717–20
Catalytic and noncatalytic addition of aromatic amines to terminal acetylenes in the presence of mercury(II) chloride and acetate, 2732–7
ANILINOPROPIONATE
Formation of 2,3-dihydro-4(1H)-quinolones and related compounds via Fries-type acid-catalyzed rearrangement of 1-arylazetidin-2-ones, 2105–11
ANION
New olefin and oxirane syntheses from carbonyl compounds, and diethyl sodiophosphonate anions and 1-aminophosphonate amino-anions, 1731–8
ANISOLE
Studies on the organic fluorine compounds. Part 27. Abnormal reactions in the trifluoromethylation of aromatic compounds with trifluoromethyl iodide and copper powder, 661–4
N-Chloro- and NN-dichloro derivatives of some phosphinic amides: preparation and reactions with anthracene, anisole, and triphenylarsine, 705–11
The photocycloaddition of vinyl acetate to benzene and its simple derivatives: functionalization of the dihydrosemibullvalene skeleton, 1118–23
Photochemical reactions of benzene derivatives with electron-donor ethylenes, 1218–24
ANISYLIDENE
α,β-Unsaturated carboxylic acid derivatives. Part 18. Syntheses of geometric isomers of 3,6-dibenzylidene- and 3-p-anisylidene-6-benzylidene-2,5-piperazinediones, 419–21
ANNULATION
Hydrocyclopropa[b]anthracene derivatives, 176–80
ANNULENONE
Synthesis and properties of a trimethyltetradehydro[17]annulenone and its benzannelated derivatives, 473–80
ANTAGONIST
Purines, pyrimidines and imidazoles. Part 53. Synthesis of some 5-halo analogs of metiamide and cimetidine, 2310–15
ANTHRACENE
N-Chloro- and NN-dichloro derivatives of some phosphinic amides: preparation and reactions with anthracene, anisole, and triphenylarsine, 705–11
Benzocyclobutenes. Part 4. Synthesis of benzocyclobutene-1,2-diones by pyrolytic methods, 1834–40
Benzocyclobutenes. Part 5. Synthesis of 4-hydroxy-, 4,5-dihydroxy-, and 3,6-dihydroxy-benzocyclobutene-1,2-dione (benzologs of semisquaric and squaric acid), 1841–6
ANTHRACENETETRONE
Studies related to anthracyclines. Part 1. Some Diels–Alder reactions of 4a,9a-epoxy-4a,9a-dihydroanthracene-1,4,9,10-tetrone, 1007–12
ANTHRASTEROID
Unsaturated steroids. Part 10. The mechanism of the anthrasteroid rearrangement: the conformation of anthrasteroids, 1779–81
ANTIBACTERIAL
The chemistry of 4-mercaptoazetidin-2-ones. Part 2. Synthesis of bisnorpenicillins, 150–5
ANTIMONY
Reaction of 1,2,4,5-tetroxan with antimony pentachloride or liquid sulfur dioxide: heterolytic fission of carbon–oxygen or oxygen–oxygen bonds, 1950–4
APOMITOMYCIN
Studies on the synthesis of heterocyclic compounds. Part 832. A simple and efficient synthesis of apomitomycin derivatives; potential intermediate for mitomycin synthesis, 1607–13
APORPHINE
Studies on tetrahydroisoquinolines. Part 14. A synthesis of 4-alkoxyaporphines, 1163–8
AQ
Chemistry of quinones. Part 6. The selective hydrolysis of α-acetoxyanthraquinones and related compounds by trifluoroacetic acid containing small amounts of water, 1592–4
ARABINOFURANOSYL
The synthesis of thieno[2,3-d]pyrimidine nucleosides related to the naturally occurring nucleosides cytidine and uridine, 1853–8
Purines, pyrimidines and imidazoles. Pasrt 52. New syntheses of some 1-β-D-arabinofuranosylaminoimidazoles and of related purine nucleosides, including 9-β-D-arabinofuranosyladenine, 2304–9
ARABINOFURANOSYLAMINOIMIDAZOLE
Purines, pyrimidines and imidazoles. Pasrt 52. New syntheses of some 1-β-D-arabinofuranosylaminoimidazoles and of related purine nucleosides, including 9-β-D-arabinofuranosyladenine, 2304–9
ARABINOHEXAPYRANOSE
Branched-chain sugars. Part 10. Some approaches to the synthesis of L-evernitrose (2,3,6-trideoxy-3-C,4-O-dimethyl-3-nitro-L-arabinohexopyranose), 2054–60
ARABINOSE
Pyranoside derivatives of 3-deoxyald-2-ulosonic acids, 1971–7
ARALKYL
Preparation of 3-imino-2-en-1-ones from 2-aralkylisoxazolium salts, 1866–9
ARALKYLATION
Bacteriostatic activity of fluoro analogs of 5-(2-hydroxyethyl)-4-methylthiazole, a metabolic intermediate in the biosynthesis of thiamine, 2026–8
ARALKYLISOXAZOLIUM
Preparation of 3-imino-2-en-1-ones from 2-aralkylisoxazolium salts, 1866–9
ARBUZOV
Arbuzov reaction of alkyl and silyl phosphites with halogens involving four- and five-coordinate intermediates, 833–6
Inhibitors of pyrimidine biosynthesis. Part 1. Synthesis of potential transition-state analogs of aspartate transcarbamylase, 2721–7
ARENE
Spirans. Part 13. The synthesis and orientation of spirans related to Abel's ketone (naphtho[2,1-b]furan-2(1H)-spiro-1'(2'H)-naphthalen-2'-one), 1986–93
Condensation of αβ-unsaturated amines with perfluoroarenes, 2845–50
ARENESULFENYL
Formation of allyl and cyclopropylcarbinyl sulfides in the regiospecific reactions of arenesulfenyl chlorides with allyl- and but-3-enylcobaloximes, 2021–5
ARENESULFONYL
The reactions of some tetrahydro-β-carbolines, of hexahydroazepino[3,4-b]indoles, and of tetrahydrocarbazolones with arenesulfonyl azides, 1512–15
The reactions of four derivatives of pyrrolo[1,2-a]indole with arenesulfonyl azides, 2870–7
ARENESULFONYLHYDRAZONE
The conversion of aldehydes and ketones via their 2,4,6-triisopropylbenzenesulfonyl hydrazones into nitriles containing one additional carbon atom, 1487–92
ARISTONE
Structure of aristone, a unique indole alkaloid from Aristotelia chilensis (Mol.) Stuntz, by x-ray crystallographic analysis, 2842–4
ARNDT
Studies on the syntheses of heterocyclic compounds. Part 855. Cycloaddition reaction of bis(trimethylsilyl)allenedicarboxylate with homocyclic dienes, 2801–4
AROM
Alkyloxytris(dimethylamino)phosphonium salts. Part 21. Anomeric hydroxy-group activation of 2,3:4,6-di-O-isopropylidene-α-D-mannopyranose, thioglycosylation, and glycosylation, 381–4
Ring C aromatic steroids. Part 2. Rearrangement of 16α,17α-epoxy- and 17α-hydroxy-5,7-dienes, 556–62
Thermal decomposition of aromatic azides. Formation of phenazines and related compounds, 611–13
Addition reactions of benzo[b]thiophene. Part 1. Self-addition and

AROM(contd)
addition of simple aromatic hydrocarbons, 677–85
A novel synthesis of pyrimido[4,5–b]quinoline–2(3H),4(10H)–diones (5–deazaflavins) and analogs by the oxidative cyclization of 5,5'–arylmethylenebis(6–alkylamino–3–methyluracils), 978–81
Synthesis of 5,6–dihydro–4H–1,3,5–dithiazines, 2,3–dihydro–6–thioxo–6H–1,3–thiazine, and 6–amino–1,3–dithiins, 1038–44
On the mechanism of the meta photocycloaddition of ethylenes to benzenoid compounds, 1314–18
Isomerization of 2–aryl–4–oxo–2,3–dihydrobenzopyrano[2,3–d]pyrimidines to 2–aryl–4–hydroxy–5H–benzopyrano[2,3–d]pyrimidines, 1335–7
Heterocycles in organic synthesis. Part 13. The reaction of 2,4–diphenylthiopyrylium perchlorate with amines, 1345–6
Alkylidene transfer from (monochloroalkyl)mercury(II) compounds to aromatic amines; selective C–alkylation, 1420–6
Pyrazines. Part 5. Preparation of 3,8–diazabicyclo[3.2.1]octane–2,4–dione derivatives, 1603–6
Reduction of ortho–quinones to dihydrodiols, 1920–3
Reaction of 6–bromobenzocyclohepten–5–one with amines, 2077–80
Enamidines. Part 1. Synthesis of enamidines and dihydrotriazines by the reaction of organolithium and organomagnesium compounds with aromatic nitriles, 2392–7
Alkyltrifluoromethanesulfonates as alkylating reagents for aromatic compounds, 2887–94
AROMATIZATION
The participation of 3,5–cyclosteroids in aromatization reactions, 1306–10
AROYLGLYCEROL
A possible model for a new chiral glyceride synthesis. Part 2. Synthesis of 1,3–di–O–aroyl– and 1–O–aroyl–3–O–tosyl–sn–glycerols from 2,5–O–methylene D–mannitol, 1–6
ARSINE
N–Chloro– and NN–dichloro derivatives of some phosphinic amides: preparation and reactions with anthracene, anisole, and triphenylarsine, 705–11
ARYL
Addition reactions of heterocyclic compounds. Part 71. The formation of 1,3a,3b,4,6a,6b–hexahydrocyclopenta[3,4]cyclobut–a[1,2–b]pyrroles from dimethyl acetylenedicarboxylate and 1–aryl–1,4–dihydropyridines, 81–4
v–Triazolines. Part 12. Synthesis of 5–amino–1–aryl–4–methylene–4,5–dihydro–v–triazoles, 141–5
A new route to 5–substituted resorcinols and related systems, 170–5
Reactions of conjugated arylazocycloalkenes with Grignard reagents. Part 3. A convenient synthesis of 2,6–diaryl– and 2–alkyl–6–arylcyclohexanones, 240–3
2–Imidazolines. Part 2. Pyrolysis of 1–acyl–4,5–diamino–4,5–dihydroimidazoles: a novel pyrimidine synthesis, 722–7
Isomerism and lead(IV) acetate oxidation reactions of p–substituted phenylosazones of some substituted glyoxals and 1,2–diketones. Reactions of metallic acetates with nitrogen compounds. Part 5, 744–9
Electrocyclic reactions of protonated chalcones: synthesis of 3–arylindan–1–ones, 837–42
Heterocycles in organic synthesis. Part 36. An alternative to the Gattermann reaction for the conversion of anilines into thiocyanates, 865–8
Applications of substituted arylacetaldehydes in the total synthesis of seco–mesembrane alkaloids. Part 1. The total synthesis of (±)–O–methyljoubertiamine, 906–10
Isomerization of 2–aryl–4–oxo–2,3–dihydrobenzopyrano[2,3–d]pyrimidines to 2–aryl–4–hydroxy–5H–benzopyrano[2,3–d]pyrimidines, 1335–7
Restricted rotation about the carbon–nitrogen single bond of 1–aryl–4,6–dimethylpyrimidin–2(1H)–ones and the corresponding thiones, 1599–602
The synthesis and reactions of sterically constrained pyrylium and pyridinium salts, 1895–900
Formation of allyl and cyclopropylcarbinyl sulfides in the regiospecific reactions of arenesulfenyl chlorides with allyl– and but–3–enylcobaloximes, 2021–5
The thermolysis of polyazapentadienes. Part 1. 1,5–Diaryl–1,2,5–triaza derivatives, 2200–4
Synthesis and reactions of 5–arylamino–1,2,4–trioxanes, 2300–3
Sulfur nitrides in organic chemistry. Part 8. Reaction of tetrasulfur tetranitride with Grignard reagents and organolithium compounds, 2417–21
Reactions of alkyllithium compounds with aryl halides, 2617–25
Synthesis and reactions of 1,6–diaryl–2,5–bis(diazo)–1,3,4,6–tetraoxohexanes, 2670–7
Synthetic C–glycosyl nucleosides. A new approach, 2683–5
Photobromination of carbohydrate derivatives. Part 4. Observations on some glucopyranoside esters; a simple route to aryl α L–idopyranosides, 2762–7
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
The reactions of four derivatives of pyrrolo[1,2–a]indole with arenesulfonyl azides, 2870–7
New dyes based on 3–arylbenzo– and –naphtho–1,4–thiazines, 2923–32
ARYLACETALDEHYDE
Applications of substituted arylacetaldehydes in the total synthesis of seco–mesembrane alkaloids. Part 1. The total synthesis of (±)–O–methyljoubertiamine, 906–10
ARYLALKANE
Alkylidene transfer from (monochloroalkyl)mercury(II) compounds to aromatic amines; selective C–alkylation, 1420–6
ARYLAMINE
Synthesis and reactions of 5–arylamino–1,2,4–trioxanes, 2300–3
ARYLATION
Polyhaloaromatic compounds. Part 41. Photochemical dehalogenation and arylation reactions of polyhaloaromatic and polyhaloheteroaromatic compounds, 648–56
Polyhaloaromatic compounds. Part 44. Reactions of enamines with polyhalopyridines and their N–oxides, 2709–16
ARYLAZOCYCLOHEXENE
Reactions of conjugated arylazocycloalkenes with Grignard reagents. Part 3. A convenient synthesis of 2,6–diaryl– and 2–alkyl–6–arylcyclohexanones, 240–3
ARYLAZOETHYLENE
Isomerism and lead(IV) acetate oxidation reactions of p–substituted phenylosazones of some substituted glyoxals and 1,2–diketones. Reactions of metallic acetates with nitrogen compounds. Part 5, 744–9
ARYLCOUMARIN
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
ARYLDIALKYL
Oxidation of aryldialkylamines with cerium(IV) ammonium nitrate and thallium(II) nitrate, 828–32
ARYLENEIMINO
1,2,3–Benzotriazin–4–ones and related systems. Part 6. Thermal and photolytic decomposition of 3–arylideneamino–, 3–imidoyl–, and 3–heteroaryl–1,2,3–benzotriazin–4–ones, 633–8
ARYLFLAVONONE
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
ARYLHALOALKANE
Methods for the construction of linear 1,7–diarylheptanoids: synthesis of di–O–methylcentrolobol and precursors (synthetic and biosynthetic) to the meta,meta–bridged biphenyls myricanol and myricanone, 614–22
ARYLHEPTANOID
Methods for the construction of linear 1,7–diarylheptanoids: synthesis of di–O–methylcentrolobol and precursors (synthetic and biosynthetic) to the meta,meta–bridged biphenyls myricanol and myricanone, 614–22
ARYLHYDROXYCOUMARIN
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
ARYLHYDROXYNAPHTHOTHIAZINEQUINONE
New dyes based on 3–arylbenzo– and –naphtho–1,4–thiazines, 2923–32
ARYLIMINO
Synthesis of 2,4–diazabicyclo[3.3.0]octane–3,7–diones and 3–thioxo–2,4–diazabicyclo[3.3.0]octan–7–one by an intramolecular Michael–type reaction. Stability of 2,4–diaza–, 4–oxa–2–aza–, and 4–thia–2–aza–bicyclo[3.3.0]octane–3,7–diones, 2497–502
ARYLIMINOTHIAAZABICYCLOOCTANONE
Synthesis of 2,4–diazabicyclo[3.3.0]octane–3,7–diones and 3–thioxo–2,4–diazabicyclo[3.3.0]octan–7–one by an intramolecular Michael–type reaction. Stability of 2,4–diaza–, 4–oxa–2–aza–, and 4–thia–2–aza–bicyclo[3.3.0]octane–3,7–diones, 2497–502
ARYLINDANONE
Electrocyclic reactions of protonated chalcones: synthesis of 3–arylindan–1–ones, 837–42

ARYLOXOBENZOPYRANOPYRIMIDINE
Isomerization of 2-aryl-4-oxo-2,3-dihydrobenzopyrano[2,3-d]pyrimidines to 2-aryl-4-hydroxy-5H-benzopyrano[2,3-d]pyrimidines, 1335–7

ARYLPHENYLSULFINYL
A new route to 5-substituted resorcinols and related systems, 170–5

ARYLPYRIDINE
Addition reactions of heterocyclic compounds. Part 71. The formation of 1,3a,3b,4,6a,6b-hexahydrocyclopenta[3,4]cyclobuta[1,2-b]pyrroles from dimethyl acetylenedicarboxylate and 1-aryl-1,4-dihydropyridines, 81–4

ARYLPYRIMIDINETHIONE
Restricted rotation about the carbon–nitrogen single bond of 1-aryl-4,6-dimethylpyrimidin-2(1H)-ones and the corresponding thiones, 1599–602

ARYLPYRIMIDINONE
Restricted rotation about the carbon–nitrogen single bond of 1-aryl-4,6-dimethylpyrimidin-2(1H)-ones and the corresponding thiones, 1599–602

ARYLSULFENATE
Preparation and trapping of sulfenic acids, 237–9

ARYLTELLURIDE
Mechanism of thermal decomposition of tetra-aryltellurium species 1338–44

ARYLTRIAZAPENTADIENE
The thermolysis of polyazapentadienes. Part 1. 1,5-Diaryl-1,2,5-triaza derivatives, 2200–4

ARYLUREA
Restricted rotation about the carbon–nitrogen single bond of 1-aryl-4,6-dimethylpyrimidin-2(1H)-ones and the corresponding thiones, 1599–602

ASCLEPIADACEAE
Stereochemistry of the hexosulose in cardenolide glycosides of the Asclepiadaceae, 2162–8

ASCOCHITINE
Biosynthetic origin and revised structure of ascochitine, a phytotoxic fungal metabolite. Incorporation of [1-^{13}C]- and [1,2-$^{13}C_2$]-acetates and [Me-^{13}C]methionine, 675–6
Biosynthesis of ascochitine and synthesis of its biogenetic precursors 2549–53

ASCOCHYTA
Biosynthetic origin and revised structure of ascochitine, a phytotoxic fungal metabolite. Incorporation of [1-^{13}C]- and [1,2-$^{13}C_2$]-acetates and [Me-^{13}C]methionine, 675–6
Biosynthesis of ascochitine and synthesis of its biogenetic precursors 2549–53

ASPARTATE
Inhibitors of pyrimidine biosynthesis. Part 1. Synthesis of potential transition-state analogs of aspartate transcarbamylase, 2721–7

ASPERGILLUS
Microbiological hydroxylation. Part 23. Hydroxylations of fluoro-5α-androstanones by the fungi Calonectria decora, Rhizopus nigricans, and Aspergillus ochraceus, 750–5
Biosynthesis of aromatic isoprenoids. Part 5. The preparation of 1-(3,3-dimethylallyl)-L-tryptophan and cyclo-L-alanyl-1-(3,3-dimethyl-allyl)-L-tryptophan and their nonincorporation into echinulin, 1294–8
Structural elucidation of the nigerones, four new naphthopyrones from cultures of Aspergillus niger, 2474–9

ASYM
NADH model reaction. Importance of hydroxy groups in the asymmetric reduction of ethyl benzoylformate, 7–10
Synthesis, absolute configuration, and circular dichroism of the enantiomers of fluorosuccinic acid, 2029–32
Asymmetric synthesis at nitrogen by oxidation of imines with m-chloroperbenzoic acid in the presence of optically active carbinols. Absolute stereochemistry of chiral alcohol–imine-peracid solvates, 2152–61
Michael additions to α,β-unsaturated sulfoximides in two-phase systems. Kinetic resolution by means of chiral phase-transfer catalysts, 2422–4

ATTEMPTED
Synthetic studies in the α-kainic acid (2,3-trans,3,4-cis-2-carboxy-4-isopropenylpyrrolidin-3-ylacetic acid) series, 2542–8

AUTOCONDENSATION
Reactions of alkyllithium compounds with aryl halides, 2617–25

AUTOXIDN
On the chemistry of β-lactamase inhibition by 6β-bromopenicillanic acid, 2322–9

AZA
The formation of complexes between aza-derivatives of crown ethers and primary alkylammonium salts. Part 6. Bis(mono-aza)crown ethers, 586–600
A tautomerizable macrocyclic compound containing two aza-bridged 2,2'-bipyridine moieties, 2527–30

AZAALLYLLITHIUM
[6+3] Cycloadditions of 1,1- and 1,3-diphenyl-2-azaallyllithium to cycloheptatriene, 672–4

AZAAROM
Stereochemical and mechanistic aspects of sulfoxide, epoxide, arene oxide, and phenol formation by photochemical oxygen atom transfer from azaaromatic N-oxides, 1693–9

AZABICYCLOHEXENE
Photochemical electrocyclization of 1,4,6-trisubstituted pyrimidin-2-ones to 2-oxo-1,3-diazabicyclo[2.2.0]hex-5-enes, 607–10

AZACYCLAZINE
Heterocyclic compounds with bridgehead nitrogen atoms. Part 7. The synthesis of pyrrolo[2,1,5-cd]indolizines ([2,2,3]cyclazines) and pyrazino[2,1,6-cd]cyclazines) (6-aza[2,2,3]cyclazines) from 3H-pyrrolizine, 1319–23

AZACYCLOHEXADIENE
N-Halo compounds. Part 7. Synthesis and iodine-catalyzed rearrangement to 6-chloroimino-1-azacyclohexadienes of 4-substituted 2-(dichloroamino)-3,5,6-trifluoropyridines, 817–21

AZACYCLOHOMOCHOLSTANONE
Photo-induced transformations. Part 50. The photo-Beckmann rearrangement of 3α,5-cyclo-5α-cholestan-7-one oxime, a βγ-cyclopropyl ketone oxime, 2268–71

AZACYCLOL
Structural studies of azacyclols derived from linear tripeptides, 809–16

AZAOXABICYCLOOCTANEDIONE
Synthesis of 2,4-diazabicyclo[3.3.0]octane-3,7-diones and 3-thioxo-2,4-diazabicyclo[3.3.0]octan-7-one by an intramolecular Michael-type reaction. Stability of 2,4-diaza-, 4-oxa-2-aza-, and 4-thia-2-aza-bicyclo[3.3.0]octane-3,7-diones, 2497–502

AZAPENTADIENE
The thermolysis of polyazapentadienes. Part 1. 1,5-Diaryl-1,2,5-triaza derivatives, 2200–4

AZAPURINE
v-Triazolo[4,5-d]pyrimidines (8-azapurines). Part 22. Synthesis of 2-amino- and 2-oxo-derivatives of N-alkyl-1,6-dihydro-8-azapurines from the corresponding 4-amino-5-aminomethyl-1,2,3-triazoles, 2918–22

AZAPURINONE
v-Triazolo[4,5-d]pyrimidines (8-azapurines). Part 22. Synthesis of 2-amino- and 2-oxo-derivatives of N-alkyl-1,6-dihydro-8-azapurines from the corresponding 4-amino-5-aminomethyl-1,2,3-triazoles, 2918–22

AZATRICYCLONONENONE
Partially fluorinated heterocyclic compounds. Part 12. Novel internal Diels–Alder adducts via Claisen rearrangement intermediates from tetrafluoro-4- and -3-pyridyl prop-2-enyl ethers. Syntheses of tetrafluoro-3-aza- and -4-aza-tricyclo[3.3.1.0^{2,7}]non-3-en-6-one, 102–6

AZEPINOINDOLONE
The reactions of some tetrahydro-β-carbolines, of hexahydroazepino[3,4-b]indoles, and of tetrahydrocarbazolones with arenesulfonyl azides, 1512–15

AZEPINONE
α-(4,6-Diphenyl-2-oxo-1-pyridyl)benzyllithiums and their reactions with electrophiles, 2851–5

AZETIDINOL
Light-induced reactions of heteroaryl N-methylanilinomethyl ketones: formation of 3-heteroaryl-1-phenylazetidin-3-ols, 2371–3

AZETIDINONE
The chemistry of 4-mercaptoazetidin-2-ones. Part 1. Preparation and properties of (3R,4R)-4-mercapto-3-phenoxyacetamidoazetidin-2-one, 146–9
Synthesis of tert-butyl 2-(2-methoxycarbonyl-1-methylethylidene-)penam-3-carboxylates; clavulanic acid analogs, 187–90
β-Lactam antibiotics. Part 2. New methods of cyclizing hydrazinothioazetidinones to cephem ring systems, 233–6
Selective hydrogenation of 4,5-dihydro-1,3-oxazin-6-ones to carboxaldehyde derivatives; chemical differentiation between acylazetidin-2-ones and the corresponding isomeric oxazin-6-ones, 378–80

AZETIDINONE(contd)
Formation of 2,3-dihydro-4(1H)-quinolones and related compounds via Fries-type acid-catalyzed rearrangement of 1-arylazetidin-2-ones, 2105-11
Total synthesis of β-lactamase inhibitors based on the 4-oxa-1-azabicyclo[3.2.0]heptan-7-one ring system, 2222-7
AZIDATION
One-step synthesis of 5'-azido nucleosides, 306-10
Synthesis and reactions of 1,6-diaryl-2,5-bis(diazo)-1,3,4,6-tetraoxohexanes, 2670-7
AZIDE
Thermal decomposition of aromatic azides. Formation of phenazines and related compounds, 611-13
Reaction of 1,3-dipoles with 3-pyrrolidino-2-benzopyran-1-one, 846-8
Heterocycles in organic synthesis. Part 42. Preparation of azides, phthalimides, and sulfonamides from primary amines, 849-50
The reactions of some tetrahydro-β-carbolines, of hexahydroazepino[3,4-b]indoles, and of tetrahydrocarbazolones with arenesulfonyl azides, 1512-15
The chemistry of o-phenylenediisothiocyanate. Part 3. Studies on the syntheses of heterocyclic compounds, 2608-11
The reactions of four derivatives of pyrrolo[1,2-a]indole with arenesulfonyl azides, 2870-7
AZIDO
Steroids. Part 2. C-C bond cleavage of α-azido-steroidal ketones, 1916-19
Synthesis and photolysis of azidobenzo[b]thiophenes, -benzothiazoles, -benzimidazoles, and -indazoles: novel 6,7-diaminobenzothiazoles, -benzimidazoles, and -indazoles and 6-diethylamino-8H-thiazolo[5,4-c]azepines, 2362-70
AZIDOBENZIMIDAZOLE
Synthesis and photolysis of azidobenzo[b]thiophenes, -benzothiazoles, -benzimidazoles, and -indazoles: novel 6,7-diaminobenzothiazoles, -benzimidazoles, and -indazoles and 6-diethylamino-8H-thiazolo[5,4-c]azepines, 2362-70
AZIDOBENZOTHIAZOLE
Synthesis and reactions of azidobenzothiazoles and -benzo[b]thiophenes. Novel thiazolo[4,5-g]benzoxazoles and dihydrothieno[3,2-g]benzoxazoles, 2358-61
Synthesis and photolysis of azidobenzo[b]thiophenes, -benzothiazoles, -benzimidazoles, and -indazoles: novel 6,7-diaminobenzothiazoles, -benzimidazoles, and -indazoles and 6-diethylamino-8H-thiazolo[5,4-c]azepines, 2362-70
AZIDOBENZOTHIOPHENE
Synthesis and photolysis of azidobenzo[b]thiophenes, -benzothiazoles, -benzimidazoles, and -indazoles: novel 6,7-diaminobenzothiazoles, -benzimidazoles, and -indazoles and 6-diethylamino-8H-thiazolo[5,4-c]azepines, 2362-70
AZIDOCARBOXYPENAMSPIROCYCLOPENTANE
Studies related to penicillins and cephalosporins. Part 6. Synthesis of the (±)-dinorpenicillin-spirocyclopentane system, 2228-32
AZIDODIHYDROBENZOTHIOPHENE
Synthesis and reactions of azidobenzothiazoles and -benzo[b]thiophenes. Novel thiazolo[4,5-g]benzoxazoles and dihydrothieno[3,2-g]benzoxazoles, 2358-61
AZIDOINDAZOLE
Synthesis and photolysis of azidobenzo[b]thiophenes, -benzothiazoles, -benzimidazoles, and -indazoles: novel 6,7-diaminobenzothiazoles, -benzimidazoles, and -indazoles and 6-diethylamino-8H-thiazolo[5,4-c]azepines, 2362-70
AZIDOLYSIS
Branched-chain sugars. Part 11. An approach to the synthesis of D-evernitrose via the addition of iodine azide to a C-methylene sugar, 2061-4
AZIDOPENICILLANATE
Studies related to penicillins and cephalosporins. Part 5. A new relay synthesis of penicillin, 11-13
AZIRIDINE
Stereospecific transformations of steroidal 2,3-aziridines into substituted amino thiols and ring-A fused heterocycles, 766-74
AZO
New dyes based on 3-arylbenzo- and -naphtho-1,4-thiazines, 2923-32
AZOCYCLOHEXENE
Reactions of conjugated arylazocycloalkenes with Grignard reagents. Part 3. A convenient synthesis of 2,6-diaryl- and 2-alkyl-6-arylcyclohexanones, 240-3
AZOPURINONE
v-Triazolo[4,5-d]pyrimidines (8-azapurines). Part 22. Synthesis of 2-amino- and 2-oxo-derivatives of N-alkyl-1,6-dihydro-8-azapurines from the corresponding 4-amino-5-aminomethyl-1,2,3-triazoles, 2918-22
AZOTRIFLUOROPYRIDINE
N-Halo compounds. Part 7. Synthesis and iodine-catalyzed rearrangement to 6-chloroimino-1-azacyclohexadienes of 4-substituted 2-(dichloroamino)-3,5,6-trifluoropyridines, 817-21
BA
Cyclodepsipeptides from Beauveria bassiana. Part 3. The isolation of beauverolides Ba, Ca, Ja, and Ka, 2878-80
BACTERICIDE
Bacteriostatic activity of fluoro analogs of 5-(2-hydroxyethyl)-4-methylthiazole, a metabolic intermediate in the biosynthesis of thiamine, 2026-8
BAEYER
Photochemistry of substituted cyclic enones. Part 2. 5-[Prop-2-enyl]cyclopentenones, 1516-22
BARRIER
Restricted rotation about the carbon-nitrogen single bond of 1-aryl-4,6-dimethylpyrimidin-2(1H)-ones and the corresponding thiones, 1599-602
Spirans. Part 13. The synthesis and orientation of spirans related to Abel's ketone (naphtho[2,1-b]furan-2(1H)-spiro-1'(2'H)-naphthalen-2'-one), 1986-93
BASE
Photochemical cyclization of phthalimide Mannich bases, 93-6
New aspects in the base-promoted cyclization of o-vinylbenzohydrazonyl chlorides, 116-18
β-Lactam antibiotics. Part 2. New methods of cyclizing hydrazinothioazetidinones to cephem ring systems, 233-6
Cycloaddition reactions of isonitrosoflavanone esters with Schiff bases and with heteroaromatic rings, 354-61
Intramolecular alkylation of phenols. Part 4. Base-catalyzed cyclization of phenolic enones. Scope and limitations, 1555-66
Selective reactions between phenols and formaldehyde. A novel route to salicylaldehydes, 1862-5
Base catalyzed rearrangements involving ylide intermediates. Part 7. The rearrangements of allyl(pentadienyl)- and propynyl(pentadienyl)-ammonium cations. The [5,4] sigmatropic rearrangement, 2033-48
BASED
New dyes based on 3-arylbenzo- and -naphtho-1,4-thiazines, 2923-32
BASICITY
Benzocyclobutenes. Part 5. Synthesis of 4-hydroxy-, 4,5-dihydroxy-, and 3,6-dihydroxy-benzocyclobutene-1,2-dione (benzologs of semisquaric and squaric acid), 1841-6
BEAUVERIA
Cyclodepsipeptides from Beauveria bassiana. Part 2. Beauverolides A to F and their relationship to isarolide, 1795-9
Cyclodepsipeptides from Beauveria bassiana. Part 3. The isolation of beauverolides Ba, Ca, Ja, and Ka, 2878-80
BEAUVEROLIDE
Cyclodepsipeptides from Beauveria bassiana. Part 2. Beauverolides A to F and their relationship to isarolide, 1795-9
Cyclodepsipeptides from Beauveria bassiana. Part 3. The isolation of beauverolides Ba, Ca, Ja, and Ka, 2878-80
BECKMANN
Photo-induced transformations. Part 50. The photo-Beckmann rearrangement of 3α,5-cyclo-5α-cholestan-7-one oxime, a βγ-cyclopropyl ketone oxime, 2268-71
Synthesis and some reactions of 3,4,5,6-tetrahydro-3,6-dimethyl-2,6-methano-3-benzazocin-1(2H)-one (2,5-dimethyl-8-oxo-6,7-benzomorphan), 2374-9
Synthesis and ring expansion of 4-(2-dimethylaminoethyl)-4-methylnaphthalen-1(4H)-one and its 2,3-dihydro derivative and some reactions of the lactam products, 2380-2
BENZACRIDINE
A general and practicable synthesis of polycyclic heteroaromatic compounds. Part 3. Extension of the synthesis to 'quinone methides' of naphthalene, phenanthrene, and benzene, 1233-9
BENZALDEHYDE
Metal-assisted reactions. Part 8. Selectivity in the reaction of organic halides with tetrahydroborate and the reduction of acyl halides to aldehydes, 27-30
Isomerization of 2-aryl-4-oxo-2,3-dihydrobenzopyrano[2,3-d]pyrimidines to 2-aryl-4-hydroxy-5H-benzopyrano[2,3-

BENZALDEHYDE(contd)
d]pyrimidines, 1335–7
New olefin and oxirane syntheses from carbonyl compounds, and diethyl sodiophosphonate anions and 1-aminophosphonate amino-anions, 1731–8
Reaction of 1,2,4,5-tetroxan with antimony pentachloride or liquid sulfur dioxide: heterolytic fission of carbon–oxygen or oxygen–oxygen bonds, 1950–4
Bridged-ring nitrogen compounds. Part 3. Synthesis of representatives of the 1,5-methano-4-benzazonine ring system, 2141–5
BENZAMIDE
Electrochemical reactions. Part 23. Intramolecular radical substitution during the reduction of 2-halo-N-methyl-N-naphthylbenzamides, 657–60
BENZAMIDO
Selective hydrogenation of 4,5-dihydro-1,3-oxazin-6-ones to carboxaldehyde derivatives; chemical differentiation between acylazetidin-2-ones and the corresponding isomeric oxazin-6-ones, 378–80
BENZAZEPINONE
Reactions of the sodium salts of some heterocyclic β-ketoesters with dimethyl acetylenedicarboxylate, 1251–6
BENZAZOCINE
Synthesis and some reactions of 3,4,5,6-tetrahydro-3,6-dimethyl-2,6-methano-3-benzazocin-1(2H)-one (2,5-dimethyl-8-oxo-6,7-benzomorphan), 2374–9
Synthesis and ring expansion of 4-(2-dimethylaminoethyl)-4-methylnaphthalen-1(4H)-one and its 2,3-dihydro derivative and some reactions of the lactam products, 2380–2
BENZAZONINONE
Reactions of the sodium salts of some heterocyclic β-ketoesters with dimethyl acetylenedicarboxylate, 1251–6
BENZENE
The photoaddition of ethylenic hydrocarbons to benzene, 55–71
Formylation and acylation reactions catalyzed by trifluoromethanesulfonic acid, 181–6
Preparation and trapping of sulfenic acids, 237–9
The photo-cycloaddition of enol ethers to benzene, 869–76
The photocycloaddition of vinyl acetate to benzene and its simple derivatives: functionalization of the dihydrosemibullvalene skeleton, 1118–23
Oxidation of ketone and aldehyde hydrazones, oximes and semicarbazones, and of hydroxylamines, and hydrazo-compounds, using benzeneseleninic anhydride, 1212–17
The photochemical reaction of benzene with ethylenes: studies with allyl compounds, enamines, vinyl sulfide, and 5,6-dichlorobicyclo[2.2.1]hept-2-ene, 1225–9
Excited state substitution and addition reactions of aryl fluorides with aliphatic amines, 1393–9
The photochemical cycloaddition of furan and benzene, 2174–8
Vesicant principles of poison ivy and related plants: synthesis of the urushiols, 1,2-dihydroxy-3-[(Z)-pentadec-8-enyl]benzene and 1,2-dihydroxy-3-pentadecylbenzene, 2331–7
The photochemical reactions of benzene with 1,2-, 1,3-, and 1,4-dienes, 2425–34
BENZENESELENINIC
Oxidation of ketone and aldehyde hydrazones, oximes and semicarbazones, and of hydroxylamines, and hydrazo-compounds, using benzeneseleninic anhydride, 1212–17
Conversion of thiocarbonyl compounds into their corresponding oxo-derivatives using benzeneseleninic anhydride, 1650–3
Removal of thioacetal protecting groups by benzeneseleninic anhydride, 1654–7
Dehydrogenation of steroidal and triterpenoid ketones using benzeneseleninic anhydride, 2209–12
BENZENESULFENATE
Preparation and trapping of sulfenic acids, 237–9
BENZENESULFINIC
Sultone formation from 2,4,6-triisopropylbenzenesulfinic acid, 1076–9
BENZENOID
The thermolysis of N-phenyl-N'-sulfinylhydrazine: an interesting source of phenyl radicals, 1901–3
BENZIMIDAZOINDAZOLE
Competitive cyclizations of singlet and triplet nitrenes. Part 9. 2-(2-Nitrenophenyl)benzothiazoles and -benzimidazoles, 2387–91
BENZIMIDAZOLE
Benzazoles. Part 12. Synthesis of 2-(tetrahydro-2-thienyl)benzimidazoles and their unsaturated derivatives by the reaction of 2-mercaptoalkylbenzimidazoles with β-electrophilic ketones, 699–704
New steroidal heterocycles: androstano[3,2-b](pyrimido[1,2-a]benzimidazoles), 1859–61
Synthesis and photolysis of azidobenzo[b]thiophenes, -benzothiazoles, -benzimidazoles, and -indazoles: novel 6,7-diaminobenzothiazoles, -benzimidazoles, and -indazoles and 6-diethylamino-8H-thiazolo[5,4-c]azepines, 2362–70
Competitive cyclizations of singlet and triplet nitrenes. Part 9. 2-(2-Nitrenophenyl)benzothiazoles and -benzimidazoles, 2387–91
BENZIMIDAZOLINE
The chemistry of o-phenylene di-isothiocyanate. Part 1. Some reactions with N-nucleophiles, 1240–4
BENZIMIDAZOLINETHIONE
The chemistry of o-phenylene diisothiocyanate. Part 2. Reactions with enamines, an ynamine and some reactive methylene compounds, 2587–90
BENZIMIDAZOLYL
Synthesis of [1,3,5]thiadiazino[3,2-a]benzimidazole-2,4(3H)-diones and their sulfur analogs, 762–5
The chemistry of o-phenylenediisothiocyanate. Part 3. Studies on the syntheses of heterocyclic compounds, 2608–11
BENZIMIDAZOQUINAZOLINE
Competitive cyclizations of singlet and triplet nitrenes. Part 9. 2-(2-Nitrenophenyl)benzothiazoles and -benzimidazoles, 2387–91
BENZINDENOPHENALENE
Synthesis of potentially basic hydrocarbons by sulfur extrusion and/or bis-Wittig reactions. Two syntheses of benz[5,6]indeno[2,-1-a]phenalene and a new synthesis of dibenzo[de,mn]naphthacene (zethrene), 2812–17
BENZISOINDOLINIUM
Base catalyzed rearrangements involving ylide intermediates. part 6. The rearrangements of diallyl- and allylpropynylammonium cations in protic media, 1477–86
BENZISOXAZOLE
Thermolysis of o-alkylnitrosobenzenes. Unusually ready [1,5] hydrogen shift involving a nitroso group, 1365–9
BENZO
Syntheses and properties of methyl-substituted benzannelated tetradehydro[13]annulenones, 466–72
BENZOATE
Chemistry of quinones. Part 6. The selective hydrolysis of α-acetoxyanthraquinones and related compounds by trifluoroacetic acid containing small amounts of water, 1592–4
Long-chain phenols. Part 16. A novel synthesis of homologous orsellinic acids and their methyl ethers, 1658–66
Reaction of 1,2,4,5-tetroxan with antimony pentachloride or liquid sulfur dioxide: heterolytic fission of carbon–oxygen or oxygen–oxygen bonds, 1950–4
BENZOCINNOLINIUM
Reaction of benzo[c]cinnolinium-5-(N-acyl- and N-benzimidoimides) with diphenylcyclopropenone, 1147–9
BENZOCYCLOBUTENEDIONE
Benzocyclobutenes. Part 4. Synthesis of benzocyclobutene-1,2-diones by pyrolytic methods, 1834–40
Benzocyclobutenes. Part 5. Synthesis of 4-hydroxy-, 4,5-dihydroxy-, and 3,6-dihydroxy-benzocyclobutene-1,2-dione (benzologs of semisquaric and squaric acid), 1841–6
BENZOCYCLOBUTENYL
Evidence for the mechanism of formation of N-(1,2-dihydrobenzocyclobut-1-enyl)pyridinium bromides and acetophenones from bisdibromocyclopropane adducts, 2405–7
BENZOCYCLOBUTENYLPYRIDINIUM
Evidence for the mechanism of formation of N-(1,2-dihydrobenzocyclobut-1-enyl)pyridinium bromides and acetophenones from bisdibromocyclopropane adducts, 2405–7
BENZOCYCLOHEPTADECENONE
Synthesis and properties of a trimethyltetradehydro[17]annulenone and its benzannelated derivatives, 473–80
BENZODIAZATRICYCLODODECENEDIONE
1,3-Dipolar character of six-membered aromatic rings. Part 48. Novel conversions of pyridines to isoquinolines, 331–42
BENZODIAZEPINE
New aspects in the base-promoted cyclization of o-vinylbenzohydrazonyl chlorides, 116–18
BENZODIAZONINONE
Synthesis and some reactions of 3,4,5,6-tetrahydro-3,6-dimethyl-2,6-methano-3-benzazocin-1(2H)-one (2,5-dimethyl-8-oxo-6,7-benzomorphan), 2374–9

BENZODIOXAN
Benzodioxanes by oxidative phenol coupling. Synthesis of silybin, 775–8
BENZOFLUORENEDIONOL
Adducts from quinones and diazoalkanes. Part 9. The adduct from 2-methyl-1,4-naphthoquinone and diazoethane and the derived secondary carbanion: regioisomerism in carbanion–quinone additions, 1994–2000
BENZOFURAN
Studies on the organic fluorine compounds. Part 27. Abnormal reactions in the trifluoromethylation of aromatic compounds with trifluoromethyl iodide and copper powder, 661–4
BENZOFURANONE
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
BENZOFURANYLPHENYLAZETIDINOL
Light-induced reactions of heteroaryl N-methylanilinomethyl ketones: formation of 3-heteroaryl-1-phenylazetidin-3-ols, 2371–3
BENZOIC
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
BENZOISOTHIAZOLE
Novel conversions of benzo[b]thiophen-3(2H)-ones into 1,2-benzisothiazole and tetrahydro-1,2-benzothiazepin-5-one systems via sulfimide intermediates, 2830–4
BENZOLACTAM
Reaction of 6-bromobenzocyclohepten-5-one with amines, 2077–80
BENZOLOG
Benzocyclobutenes. Part 5. Synthesis of 4-hydroxy-, 4,5-dihydroxy-, and 3,6-dihydroxy-benzocyclobutene-1,2-dione (benzologs of semisquaric and squaric acid), 1841–6
BENZONAPHTHACENE
Synthesis of potentially basic hydrocarbons by sulfur extrusion and/or bis-Wittig reactions. Two syntheses of benz[5,6]indeno[2,1-a]phenalene and a new synthesis of dibenzo[de,mn]naphthacene (zethrene), 2812–17
BENZONITRILE
Reaction of 1,3-dipoles with 3-pyrrolidino-2-benzopyran-1-one, 846–8
Photochemical reactions of benzene derivatives with electron-donor ethylenes, 1218–24
Fluorinations with complex metal fluorides. Part 5. Fluorination of nitriles over cesium tetrafluorocobaltate(III), 1507–11
The reaction of para-substituted β-aminocinnamonitriles with benzonitrile oxides, 1635–40
Enamidines. Part 1. Synthesis of enamidines and dihydrotriazines by the reaction of organolithium and organomagnesium compounds with aromatic nitriles, 2392–7
BENZOPHENANTHRIDINE
Photocyclization of enamides. Part 15. Syntheses of the basic structures of corynoline and related alkaloids, 203–7
BENZOPHENONE
Further total syntheses of chlorine-containing lichen xanthones, 85–9
Chemistry of quinones. Part 6. The selective hydrolysis of α-acetoxyanthraquinones and related compounds by trifluoroacetic acid containing small amounts of water, 1592–4
Reaction of 1,2,4,5-tetroxan with antimony pentachloride or liquid sulfur dioxide: heterolytic fission of carbon–oxygen or oxygen–oxygen bonds, 1950–4
The chemistry of fungi. Part 77. The synthesis of benzophenones from phthalides: x-ray crystallographic definition of a novel isobenzofuran system, 2445–9
BENZOPYRANONE
Reaction of 1,3-dipoles with 3-pyrrolidino-2-benzopyran-1-one, 846–8
BENZOPYRANOPYRIMIDINE
Isomerization of 2-aryl-4-oxo-2,3-dihydrobenzopyrano[2,3-d]pyrimidines to 2-aryl-4-hydroxy-5H-benzopyrano[2,3-d]pyrimidines, 1335–7
BENZOPYRENE
(+)- and (−)-Benzo[a]pyrene 7,8-oxide: synthesis, absolute stereochemistry, and stereochemical correlation with other mammalian metabolites of benzo[a]pyrene, 2112–16
BENZOPYRIDONAPHTHYRIDINYLIUM
Heterocycles in organic synthesis. Part 34. The photocyclization of 1,2-diarylpyridinium cations and the photobiscyclization of 1,2,6-triarylpyridinium cations, 1879–87
BENZOQUINOLINIUM
Improved methods for conversion of primary amines into bromides 1890–4
BENZOQUINOLIZINOPHENANTHRIDINYLIUM
Heterocycles in organic synthesis. Part 34. The photocyclization of 1,2-diarylpyridinium cations and the photobiscyclization of 1,2,6-triarylpyridinium cations, 1879–87
BENZOQUINONE
Quinones. Part 10. Side-chain methylthiolation of methylbenzoquinones, 289–92
BENZOTHIADIAZINESULFONAMIDE
Fluorination of trichlormethiazide with fluoroxytrifluoromethane, 712–13
BENZOTHIAZEPINE
Novel conversions of benzo[b]thiophen-3(2H)-ones into 1,2-benzisothiazole and tetrahydro-1,2-benzothiazepin-5-one systems via sulfimide intermediates, 2830–4
BENZOTHIAZINE
New dyes based on 3-arylbenzo- and -naphtho-1,4-thiazines, 2923–32
BENZOTHIAZOLE
Synthesis and reactions of azidobenzothiazoles and -benzo[b]thiophenes. Novel thiazolo[4,5-g]benzoxazoles and dihydrothieno[3,2-g]benzoxazoles, 2358–61
Synthesis and photolysis of azidobenzo[b]thiophenes, -benzothiazoles, -benzimidazoles, and -indazoles: novel 6,7-diaminobenzothiazoles, -benzimidazoles, and -indazoles and 6-diethylamino-8H-thiazolo[5,4-c]azepines, 2362–70
Competitive cyclizations of singlet and triplet nitrenes. Part 9. 2-(2-Nitrenophenyl)benzothiazoles and -benzimidazoles, 2387–91
BENZOTHIOPHENE
Addition reactions of benzo[b]thiophene. Part 1. Self-addition and addition of simple aromatic hydrocarbons, 677–85
Synthesis and photolysis of azidobenzo[b]thiophenes, -benzothiazoles, -benzimidazoles, and -indazoles: novel 6,7-diaminobenzothiazoles, -benzimidazoles, and -indazoles and 6-diethylamino-8H-thiazolo[5,4-c]azepines, 2362–70
BENZOTHIOPHENIUM
The synthesis of thiophenium and of oxazolium salts from diazoketones, 1185–93
BENZOTHIOPHENONE
Novel conversions of benzo[b]thiophen-3(2H)-ones into 1,2-benzisothiazole and tetrahydro-1,2-benzothiazepin-5-one systems via sulfimide intermediates, 2830–4
BENZOTRIAZINONE
1,2,3-Benzotriazin-4-ones and related systems. Part 6. Thermal and photolytic decomposition of 3-arylideneamino-, 3-imidoyl-, and 3-heteroaryl-1,2,3-benzotriazin-4-ones, 633–8
BENZOTRIAZOLYLOXYPHOSPHONIUM
'Le BOP' reagent and imidazole for selective O-acylation of trehalose, 1940–3
BENZOTROPONE
Reaction of 6-bromobenzocyclohepten-5-one with amines, 2077–80
BENZOXANTHENEDIONE
Adducts from quinones and diazoalkanes. Part 9. The adduct from 2-methyl-1,4-naphthoquinone and diazoethane and the derived secondary carbanion: regioisomerism in carbanion–quinone additions, 1994–2000
BENZOXAZEPINONE
Reaction of 1,3-dipoles with 3-pyrrolidino-2-benzopyran-1-one, 846–8
BENZOXAZOLETHIOL
Alkyloxytris(dimethylamino)phosphonium salts. Part 21. Anomeric hydroxy-group activation of 2,3:4,6-di-O-isopropylidene-α-D-mannopyranose, thioglycosylation, and glycosylation, 381–4
BENZOXEPIN
Synthesis of 3-hydroxy-2,3,4,5-tetrahydro-3-methyl[1]benzoxepins by ring-closure of isoprenyl terminal epoxides, 1820–5
BENZOXEPINONE
Reactions between 3-nitrochromone and diazo alkanes; Michael additions catalyzed by diazo alkanes as nitrogen bases, 2049–53
BENZOYL
A possible model for a new chiral glyceride synthesis. Part 2. Synthesis of 1,3-di-O-aroyl- and 1-O-aroyl-3-O-tosyl-sn-glycerols from 2,5-O-methylene D-mannitol, 1–6
Steric effects in the ring expansion of coumarins by 2-diazopropane and tert-butyldiazomethane, 2937–42

BENZOYLBROMO
Photobromination of carbohydrate derivatives. Part 4. Observations on some glucopyranoside esters; a simple route to aryl α-L-idopyranosides, 2762–7
BENZOYLBROMOGLUCONOLACTONE
Photobromination of carbohydrate derivatives. Part 4. Observations on some glucopyranoside esters; a simple route to aryl α-L-idopyranosides, 2762–7
BENZOYLCOUMARIN
Steric effects in the ring expansion of coumarins by 2-diazopropane and tert-butyldiazomethane, 2937–42
BENZOYLFORMATE
NADH model reaction. Importance of hydroxy groups in the asymmetric reduction of ethyl benzoylformate, 7–10
BENZOYLGLUCOPYRANOSE
Photobromination of carbohydrate derivatives. Part 3. C-5 bromination of penta-O-benzoyl-α- and -β-D-glucopyranose; a route to D-xylohexos-5-ulose derivatives and α-L-idopyranosides, 1528–34
BENZOYLOXY
The influence of chain-branching on the steric outcome of some olefin-forming reactions, 1045–50
BENZOYLOXYANTHRAQUINONE
Chemistry of quinones. Part 6. The selective hydrolysis of α-acetoxyanthraquinones and related compounds by trifluoroacetic acid containing small amounts of water, 1592–4
BENZOYLOXYPROPIONATE
Synthesis of ethyl 3-bromo-2-ethoxy-2-(4-hydroxybenzoyloxy)propionate and attempts at cyclization. A correction, 2691–2
BENZOYLPHENYL
Ketenimines as intermediates to heterocycles. Part 2. 2-Phenylimino-3,4,5-triphenyl-1,3-oxazoline, 385–7
BENZOYLPHENYLACETALDEHYDE
Ketenimines as intermediates to heterocycles. Part 2. 2-Phenylimino-3,4,5-triphenyl-1,3-oxazoline, 385–7
BENZOYLPIPERIDINEDITHIOCARBOXLATE
Ene-type reactions involving transfer of acyl groups. Addition of 4-phenyl-1,2,4-triazoline-3,5-dione to various unsaturated compounds, 843–5
BENZOYLPROPIOPHENONE
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
BENZOYLVINYLOXIDOPYRIDINIUM
1,3-Dipolar character of six-membered aromatic rings. Part 51. Cycloadditions of 1-(β-benzoylvinyl)-3-oxidopyridiniums and subsequent transformations, 362–71
BENZYL
Acetogenin synthesis. Organocopper reagents, anions of 1,3-dithianes and of protected cyanohydrins as intermediates in ketide side-chain synthesis, 136–40
Improved methods for conversion of primary amines into bromides 1890–4
Pyranoside derivatives of 3-deoxyald-2-ulosonic acids, 1971–7
Electrochemical oxidation of aromatic ethers. Part 6. Oxidation of 4-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-methyl-1,2,3,4-tetrahydroisoquinoline and attempted synthesis of 4-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-methyl-1,4-dihydro-3(2H)-isoquinolone, 2013–20
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 13. A novel synthesis of benzyl ethers, 2184–90
Studies related to penicillins and cephalosporins. Part 6. Synthesis of the (±)-dinorpenicillin-spirocyclopentane system, 2228–32
Reductive deamination of primary amines, 2554–60
Alkyltrifluoromethanesulfonates as alkylating reagents for aromatic compounds, 2887–94
The preparation of primary alkyl and benzyl fluorides from the corresponding primary amines, 2901–3
BENZYLAMINOBROMOETHYLBENZYLMETHYLOXAZOLIDINONE
Base-catalyzed reactions of α-bromo-N-benzylpropionamide and -isobutyramide. Formation of 2-aminooxazolidinones, 2249–53
BENZYLAMMONIUM
The formation of complexes between aza-derivatives of crown ethers and primary alkylammonium salts. Part 6. Bis(monoaza)crown ethers, 586–600
BENZYLARABINOSE
Pyranoside derivatives of 3-deoxyald-2-ulosonic acids, 1971–7
BENZYLATION
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 13. A novel synthesis of benzyl ethers, 2184–90
BENZYLDEUTERIOTRIPHENYLDIHYDROPYRIDINE
Reductive deamination of primary amines, 2554–60
BENZYLDIAZABICYCLOOCTANEDIONE
Synthesis of 2,4-diazabicyclo[3.3.0]octane-3,7-diones and 3-thioxo-2,4-diazabicyclo[3.3.0]octan-7-one by an intramolecular Michael-type reaction. Stability of 2,4-diaza-, 4-oxa-2-aza-, and 4-thia-2-aza-bicyclo[3.3.0]octane-3,7-diones, 2497–502
BENZYLDIPHENYL
α-(4,6-Diphenyl-2-oxo-1-pyridyl)benzyllithiums and their reactions with electrophiles, 2851–5
BENZYLDIPHENYLPYRIDONE
α-(4,6-Diphenyl-2-oxo-1-pyridyl)benzyllithiums and their reactions with electrophiles, 2851–5
BENZYLETHYLENEDIOXYCYCLOPENTENYLUREA
Synthesis of 2,4-diazabicyclo[3.3.0]octane-3,7-diones and 3-thioxo-2,4-diazabicyclo[3.3.0]octan-7-one by an intramolecular Michael-type reaction. Stability of 2,4-diaza-, 4-oxa-2-aza-, and 4-thia-2-aza-bicyclo[3.3.0]octane-3,7-diones, 2497–502
BENZYLIC
Mechanism of diol formation in the reaction of benzylic Grignard reagents with aldehydes, 2631–6
BENZYLIDENE
α,β-Unsaturated carboxylic acid derivatives. Part 18. Syntheses of geometric isomers of 3,6-dibenzylidene- and 3-p-anisylidene-6-benzylidene-2,5-piperazinediones, 419–21
The preparation and reactions of 2-benzyloxy-4-benzylideneoxazol-5-one, 858–64
Spirans. Part 12. Stereochemical control in the oxidative cyclization of bisnaphthols, 1978–85
Branched-chain sugars. Part 11. An approach to the synthesis of D-evernitrose via the addition of iodine azide to a C-methylene sugar, 2061–4
BENZYLIDENEANILINE
Reaction of 1,3-dipoles with 3-pyrrolidino-2-benzopyran-1-one, 846–8
Chain-extension reactions of acetylenes. Part 4. Reaction of 1,3-dilithioacetylides with carbonyl electrophiles, hexamethylphosphoric triamide, and benzylideneaniline, 2338–45
BENZYLIDENEBISHYDROXYARENE
Spirans. Part 13. The synthesis and orientation of spirans related to Abel's ketone (naphtho[2,1-b]furan-2(1H)-spiro-1'(2'H)-naphthalen-2'-one), 1986–93
BENZYLIDENEBISNAPHTHOL
Spirans. Part 12. Stereochemical control in the oxidative cyclization of bisnaphthols, 1978–85
BENZYLIDENEMETHYLAMINE
The reaction between cyanide ion and nitrones; a new imidazole synthesis, 244–8
BENZYLIDENEPIPERAZINEDIONE
α,β-Unsaturated carboxylic acid derivatives. Part 18. Syntheses of geometric isomers of 3,6-dibenzylidene- and 3-p-anisylidene-6-benzylidene-2,5-piperazinediones, 419–21
BENZYLLITHIUM
α-(4,6-Diphenyl-2-oxo-1-pyridyl)benzyllithiums and their reactions with electrophiles, 2851–5
BENZYLMETHYLISOQUINOLINE
Electrochemical oxidation of aromatic ethers. Part 6. Oxidation of 4-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-methyl-1,2,3,4-tetrahydroisoquinoline and attempted synthesis of 4-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-methyl-1,4-dihydro-3(2H)-isoquinolone, 2013–20
BENZYLOXY
The preparation and reactions of 2-benzyloxy-4-benzylideneoxazol-5-one, 858–64
BENZYLOXYBENZYLIDENEOXAZOLONE
The preparation and reactions of 2-benzyloxy-4-benzylideneoxazol-5-one, 858–64
BENZYLOXYNAPHTHOQUINONE
Chemistry of quinones. Part 6. The selective hydrolysis of α-acetoxyanthraquinones and related compounds by trifluoroacetic acid containing small amounts of water, 1592–4
BENZYLPENICILLINATE
Studies related to penicillins. Part 20. The mechanism of the rearrangement of methyl benzylpenicillinate to methyl benzylpenillonate, 2001–8
BENZYLPYRAZOLOPYRIDINE
Pyrazolo[3,4-b]pyridines. The preparation of 1-protected-1H-pyrazolo[3,4-b]pyridines and attempts to remove the 1-

BENZYLPYRAZOLOPYRIDINE(contd)
substituent. Some reactions of 1-benzyl-1H-pyrazolo[3,4-b]pyridine and its 7-oxide, 938–42
BENZYLRIBOFURANOSYLPYRAZOLE
C-Nucleoside studies. Part 10. A new synthesis of 3-(2,3,5-tri-O-benzyl-β-D-ribofuranosyl)pyrazole and its conversion into 4-nitro-3(5)-β-D-ribofuranosylpyrazole, 2567–71
BERBERINE
Reaction of protoberberine-type alkaloids. Part 12. A facile method for regiospecific oxygenation and excited oxidative ring-cleavage of berberine alkaloids, 911–18
BESTATIN
Regio- and stereospecific synthesis in threo-3-amino-2-hydroxy acids, novel amino acids contained in aminopeptidase inhibitors of microbial origin, 1618–21
BETAINE
1,3-Dipolar character of six-membered aromatic rings. Part 49. 3-Oxido-1-(4-pyridyl)pyridinium, 3-oxido-1-(2-pyridyl)pyridinium, 3-oxido-1-(quinoxolin-2-yl)pyridinium, 3-oxido-1-(5,6-diphenyl-1,2,4-triazin-3-yl)pyridinium, and 3-oxido-1-(5-phenyl-1,2,4-triazin-3-yl)pyridinium, 343–53
1,3-Dipolar character of six-membered aromatic rings. Part 51. Cycloadditions of 1-(β-benzoylvinyl)-3-oxidopyridiniums and subsequent transformations, 362–71
1,3-Dipolar character of six-membered aromatic rings. Part 52. 2π + 8π cycloaddition reactions of 1-substituted 3-oxidopyridinium betaines, 1176–84
Heterocycles in organic synthesis. Part 40. Oxidation of 2,4,6-triarylpyridinium betaines and 2,4,6-triarylpyridinium perchlorates by hydrogen peroxide, 1870–8
Heterocycles in organic synthesis. Part 34. The photocyclization of 1,2-diarylpyridinium cations and the photobiscyclization of 1,2,6-triarylpyridinium cations, 1879–87
BICYCLOHEPTANE
Polyfluorobicyclo[2.2.1]heptanes. Part 11. Bridgehead radicals: their generation, reactions, and CIDNP effects, 217–20
Chemistry of O-alkyl selenoesters. Reaction with triethylphosphine 1627–34
BICYCLOHEPTANONE
Total synthesis of prostaglandin-$F_{2\alpha}$ involving stereocontrolled and photo-induced reactions of bicyclo[3.2.0]heptanones, 852–7
Photolytic conversion of some bicyclo[3.2.0]heptanones into 3-hydroxy- or 3-methoxy-2-oxabicyclo[3.3.0]octan-2-ones, 1583–6
BICYCLOHEPTENE
The photochemical reaction of benzene with ethylenes: studies with allyl compounds, enamines, vinyl sulfide, and 5,6-dichlorobicyclo[2.2.1]hept-2-ene, 1225–9
S_Ni' reactions on some cyclopentene derivatives employing simple nucleophiles and organocuprate reagents, 1847–52
Preparation and hydrolysis of some 4-substituted bicyclo[3.1.0]hex-2-ene-6-carboxaldehydes: synthesis of the prostaglandin A_2 analog possessing a butyl group in place of the octenol side chain 2088–92
BICYCLOHEXENE
Photochemical electrocyclization of 1,4,6-trisubstituted pyrimidin-2-ones to 2-oxo-1,3-diazabicyclo[2.2.0]hex-5-enes, 607–10
Preparation and some reactions of 2-oxatricyclo[3.3.0.$0^{4,6}$]oct-7-en-3-one: synthesis of 9-deoxa-9,10-dehydroprostaglandin D_2, 2093–7
BICYCLONONANOL
Adamantane chemistry. Part 3. Abnormal hypoiodite reactions of 2-substituted adamantan-2-ols; synthetic routes to 4-oxahomo- and 2-oxaadamantanes, and 7-substituted-bicyclo[3.3.1]nonan-3-ols, 410–18
BICYCLOOCTADIENE
Evidence for the mechanism of formation of N-(1,2-dihydrobenzocyclobut-1-enyl)pyridinium bromides and acetophenones from bisdibromocyclopropane adducts, 2405–7
BICYCLOOCTENONE
Photochemistry of substituted cyclic enones. Part 2. 5-[Prop-2-enyl]cyclopentenones, 1516–22
BIFLUORENYL
Sulfur nitrides in organic chemistry. Part 8. Reaction of tetrasulfur tetranitride with Grignard reagents and organolithium compounds, 2417–21
BINAPHTHYLDIQUINONE
Further conversions of naphthoquinones into dinaphthofuranquinones, 90–2
BINDING
On the chemistry of β-lactamase inhibition by 6β-bromopenicillanic acid, 2322–9
BIOALLETHRIN
Pyrethroid photochemistry: mechanistic aspects in reactions of the (dihalovinyl)cyclopropanecarboxylate substituent, 728–32
BIOSYNTHESIS
Lanosterol derivatives as precursors in the biosynthesis of viridin. Part 1, 422–5
Biosynthetic origin and revised structure of ascochitine, a phytotoxic fungal metabolite. Incorporation of [1-^{13}C]- and [1,2-$^{13}C_2$]-acetates and [Me-^{13}C]methionine, 675–6
Biosynthesis of porphyrins and related macrocycles. Part 13. Structure of the protoporphyrin isomer derived from coproporphyrinogen IV by the action of beef-liver coproporphyrinogenase: synthesis of protoporphyrin XIII, 1283–9
Biosynthesis of aromatic isoprenoids. Part 5. The preparation of 1-(3,3-dimethylallyl)-L-tryptophan and cyclo-L-alanyl-1-(3,3-dimethyl-allyl)-L-tryptophan and their nonincorporation into echinulin, 1294–8
Sirodesmin PL biosynthesis in Phoma lingam Tode, 1739–46
New insights into polyketide metabolism; the use of protium as a tracer in the biosynthesis of citrinin by Penicillium citrinum, 2244–8
Purines, pyrimidines, and imidazoles. Part 54. Interconversion of some intermediates in the de novo biosynthesis of purine nucleotides, 2316–21
Biosynthesis of ascochitine and synthesis of its biogenetic precursors 2549–53
BIPHENYL
Total syntheses of the meta,meta-bridged biphenyls (±)-myricanol and myricanone, and of an isomeric biphenyl ether, a 14-oxa[7,1]metaparacyclophane, 623–8
Base catalyzed rearrangements involving ylide intermediates. Part 5. Thermal rearrangements of 3-dimethylaminohex-5-en-1-ynes, 1473–6
The thermolysis of N-phenyl-N'-sulfinylhydrazine: an interesting source of phenyl radicals, 1901–3
BIPHENYLDICARBOXALDEHYDE
2,2'-Bridged biphenyls with 12-membered heterocyclic bridging rings. Part 1. Tetrabenzo[b,d,h,j][1,6]diazacyclododecines, 107–12
BIPHENYLPROPIONALDEHYDE
Lythraceous alkaloids. Part 11. Total synthesis of (±)-lythranidine 1066–9
BIPYRIDINE
A tautomerizable macrocyclic compound containing two aza-bridged 2,2'-bipyridine moieties, 2527–30
BISDIBROMOCYCLOPROPANE
Evidence for the mechanism of formation of N-(1,2-dihydrobenzocyclobut-1-enyl)pyridinium bromides and acetophenones from bisdibromocyclopropane adducts, 2405–7
BISDIMETHYLDITHIOCARBAMATE
Mechanism of the formation of ethylene bis(dimethyldithiocarbamate) from tetramethylthiuram monosulfide and sodium 2-hydroxyethanethiolate, 1724–5
BISHYDRAZONE
A novel hydrazino-transfer reaction to a saturated carbon: direct conversion of substituted acetophenone and aliphatic ketone 4-nitrophenylhydrazones into 1,2-bishydrazones. Reactions of mercury(II) acetate with nitrogen compounds. Part 6, 2218–21
BISHYDROXYPHENYLHEPTANOID
Total syntheses of the meta,meta-bridged biphenyls (±)-myricanol and myricanone, and of an isomeric biphenyl ether, a 14-oxa[7,1]metaparacyclophane, 623–8
BISMETHYLTHIONAPHTHALENE
Synthesis of potentially basic hydrocarbons by sulfur extrusion and/or bis-Wittig reactions. Two syntheses of benz[5,6]indeno[2,1-a]phenalene and a new synthesis of dibenzo[de,mn]naphthacene (zethrene), 2812–17
BISNORAMPICILLIN
The chemistry of 4-mercaptoazetidin-2-ones. Part 2. Synthesis of bisnorpenicillins, 150–5
BISNORDITWISTANE
Hydrogenation of cyclobutanes in strained cage compounds. Synthesis of ditwistane and bisnorditwistane (ditwistbrendane), 163–9
BISNORPENICILLIN
The chemistry of 4-mercaptoazetidin-2-ones. Part 2. Synthesis of

BISNORPENICILLIN(contd)
bisnorpenicillins, 150–5
BISSULFIDE
Synthesis of potentially basic hydrocarbons by sulfur extrusion and/or bis–Wittig reactions. Two syntheses of benz[5,6]indeno[2,1–a]phenalene and a new synthesis of dibenzo[de,mn]naphthacene (zethrene), 2812–17
BISTHIOUREA
Some reactions of vinylene diisothiocyanate, 2717–20
BISTRIFLUOROMETHYL
Polyfluoroalkyl derivatives of nitrogen. Part 48. The addition of N–haloamines $(CF_3)_2NX$ to cyclohexa–1,3– and –1,4–dienes; a new synthesis of NN–bis(trifluoromethyl)aniline, 1544–50
BISTRIFLUOROMETHYLAMINOCYCLOHEXADIENE
Polyfluoroalkyl derivatives of nitrogen. Part 48. The addition of N–haloamines $(CF_3)_2NX$ to cyclohexa–1,3– and –1,4–dienes; a new synthesis of NN–bis(trifluoromethyl)aniline, 1544–50
BONDING
Methylation study of ribonucleosides, deoxyribonucleosides, and 2'–O–methylribonucleosides with trimethylsulfonium hydroxide and trimethylsulfonium iodide. Influence of the 2'–hydroxy–groups on the reactivity of the base moieties of ribonucleosides, 2787–92
BONELLIN
The structure of bonellin and its derivatives. Unique physiologically active chlorins from the marine echurian Bonellia viridis, 1080–9
BOROHYDRIDE
Mesoionic compounds. Part 10. A study of the reactions of 3–(3–pyridyl)sydnone with some nucleophilic reagents, 20–6
BOTRYALOATE
Three new sesquiterpenoid metabolites of Botrytis cinerea, 741–3
BOTRYOLOATE
Three new sesquiterpenoid metabolites of Botrytis cinerea, 741–3
BOTRYTIS
Three new sesquiterpenoid metabolites of Botrytis cinerea, 741–3
BRANCHED
Branched–chain sugars. Part 15. Synthesis of L-(1,2,3',4,5/3,6)–3–hydroxymethyl–4,5–O–isopropylidene–3,3'–O–methylene–6–nitro–2,3,4,5–tetrahydroxycyclohexenecarbaldehyde dimethyl acetal, a potential key compound for total synthesis of optically active tetrodotoxin, 14–19
Branched–chain sugars. Part 7. A route to sugars with two–carbon branches using 1–methoxyvinyllithium, 269–72
Branched–chain sugars. Part 8. The synthesis of C–acetylpyranosides and a pillarose derivative using 1–methoxyvinyllithium, 273–6
BRIDGE
Total syntheses of the meta,meta–bridged biphenyls (±)–myricanol and myricanone, and of an isomeric biphenyl ether, a 14–oxa[7,1]metaparacyclophane, 623–8
BRIDGED
A tautomerizable macrocyclic compound containing two aza–bridged 2,2'–bipyridine moieties, 2527–30
BRIDGEHEAD
Polyfluorobicyclo[2.2.1]heptanes. Part 11. Bridgehead radicals: their generation, reactions, and CIDNP effects, 217–20
BROMAMINE
Polyfluoroalkyl derivatives of nitrogen. Part 48. The addition of N–haloamines $(CF_3)_2NX$ to cyclohexa–1,3– and –1,4–dienes; a new synthesis of NN–bis(trifluoromethyl)aniline, 1544–50
BROMIDE
Acetogenin synthesis. Organocopper reagents, anions of 1,3–dithianes and of protected cyanohydrins as intermediates in ketide side–chain synthesis, 136–40
S_N' reactions on some cyclopentene derivatives employing simple nucleophiles and organocuprate reagents, 1847–52
Improved methods for conversion of primary amines into bromides 1890–4
Evidence for the mechanism of formation of N–(1,2–dihydrobenzocyclobut–1–enyl)pyridinium bromides and acetophenones from bisdibromocyclopropane adducts, 2405–7
Reactions of alkyllithium compounds with aryl halides, 2617–25
Studies on the preparation of N–alkyl–O–phenylhydroxylamines, 2781–6
v–Triazolo[4,5–d]pyrimidines (8–azapurines). Part 22. Synthesis of 2–amino– and 2–oxo–derivatives of N–alkyl–1,6–dihydro–8–azapurines from the corresponding 4–amino–5–aminomethyl–1,2,3–triazoles, 2918–22
BROMINATION
Cyclization of polyenes. Part 32. Selective bromination of polyenes by 2,4,4,6–tetrabromocyclohexa–2,5–dienone, 1051–6
β–Silylcarbonyl compounds as masked enones, 1493–8
Photobromination of carbohydrate derivatives. Part 2. Penta–O–acetyl–β–D–glucopyranose; the 5–bromo derivative and products of further bromination, 1523–7
Photobromination of carbohydrate derivatives. Part 3. C–5 bromination of penta–O–benzoyl–α– and –β–D–glucopyranose; a route to D–xylohexos–5–ulose derivatives and α–L–idopyranosides, 1528–34
Branched–chain sugars. Part 11. An approach to the synthesis of D–evernitrose via the addition of iodine azide to a C–methylene sugar, 2061–4
The chemistry of fungi. Part 76. The synthesis and transformations of three stereoisomeric 2–(2,6–dimethoxybenzoyl)–3–methoxycarbonyl–7–oxabicyclo[2.2.1]heptanes, 2435–44
Polycyclic fluoroaromatic compounds. Part 10. Nucleophilic replacement of fluorine in heptafluoro–2–naphthyllithium, 2494–6
Photobromination of carbohydrate derivatives. Part 4. Observations on some glucopyranoside esters; a simple route to aryl α–L–idopyranosides, 2762–7
Photobromination of carbohydrate derivatives. Part 5. Preparation and reactions of (5S)–1,2,3,4–tetra–O–acetyl–5–bromo–β–D–xylopyranose; a new type of 'double–headed' nucleoside, 2767–73
BROMINE
Free radical reactions of halogenated bridged polycyclic compounds. Part 18. The addition of chlorine and bromine to 1,2,3,4,7,7–hexachloro–5–methylnorbornadiene, 302–5
Steroids. Part 2. C–C bond cleavage of α–azido–steroidal ketones, 1916–19
Studies on steroids. Part 48. Neighboring group effects. Part 2. Effect of epoxide on the hydrolysis of adjacent acetate groups, 2507–10
BROMO
Polyfluoroalkyl derivatives of nitrogen. Part 44. The reactions of N–bromobis(trifluoromethyl)amine with open–chain 1,3–dienes and cyclohexene under ionic conditions, 372–7
Studies on the organic fluorine compounds. Part 27. Abnormal reactions in the trifluoromethylation of aromatic compounds with trifluoromethyl iodide and copper powder, 661–4
Electrocyclic reactions of protonated chalcones: synthesis of 3–arylindan–1–ones, 837–42
Cyclization of polyenes. Part 32. Selective bromination of polyenes by 2,4,4,6–tetrabromocyclohexa–2,5–dienone, 1051–6
β–Silylcarbenyl compounds as masked enones, 1493–8
Unsaturated carbohydrates. Part 22. Alkenes from 5–bromohexopyranose derivatives, 1535–9
Reactions of 4–bromo–4–(1–hydroxypropyl)–2,6–di–tert–butylcyclohexa–2,5–dienone in methanolic sulfuric acid, 1595–8
Studies on the synthesis of heterocyclic compounds. Part 832. A simple and efficient synthesis of apomitomycin derivatives; potential intermediate for mitomycin synthesis, 1607–13
S_N' reactions on some cyclopentene derivatives employing simple nucleophiles and organocuprate reagents, 1847–52
Reaction of 6–bromobenzocyclohepten–5–one with amines, 2077–80
Synthesis and properties of 5–bromocyclohepta[b]furan–4–one, 2081–3
Steroidal heterocycles: synthesis and structure of imidazo[2,1–b]thiazolo–, thiazolo[3,2–a]benzimidazolo–, and thiazolo[3,2–b]–s–triazolo–derivatives, 2146–51
On the chemistry of β–lactamase inhibition by 6β–bromopenicillanic acid, 2322–9
Reactions of alkyllithium compounds with aryl halides, 2617–25
Synthesis of ethyl 3–bromo–2–ethoxy–2–(4–hydroxybenzoyloxy)propioonate and attempts at cyclization. A correction, 2691–2
BROMOACETOPHENONE
New dyes based on 3–arylbenzo– and –naphtho–1,4–thiazines, 2923–32
BROMOACRYLATE
The chemistry of 4–mercaptoazetidin–2–ones. Part 2. Synthesis of bisnorpenicillins, 150–5
Synthetic study on several eremophilane sesquiterpenes using a common intermediate, 963–77
BROMOACYLGLUCOPYRANOSE
Unsaturated carbohydrates. Part 22. Alkenes from 5–bromohexopyranose derivatives, 1535–9
BROMOANISOLE
Studies on the organic fluorine compounds. Part 27. Abnormal

BROMOANISOLE(contd)
reactions in the trifluoromethylation of aromatic compounds with trifluoromethyl iodide and copper powder, 661–4
BROMOBENZENE
Reactions of alkyllithium compounds with aryl halides, 2617–25
BROMOBENZOFURAN
Studies on the organic fluorine compounds. Part 27. Abnormal reactions in the trifluoromethylation of aromatic compounds with trifluoromethyl iodide and copper powder, 661–4
BROMOBENZOTROPONE
Reaction of 6-bromobenzocycloheptен-5-one with amines, 2077–80
BROMOBENZYLALKYLAMIDE
Base-catalyzed reactions of α-bromo-N-benzylpropionamide and -isobutyramide. Formation of 2-aminooxazolidinones, 2249–53
BROMOCHALCONE
Electrocyclic reactions of protonated chalcones: synthesis of 3-arylindan-1-ones, 837–42
BROMOCROTONATE
The chemistry of 4-mercaptoazetidin-2-ones. Part 2. Synthesis of bisnorpenicillins, 150–5
BROMOCYCLOHEPTAFURANONE
Synthesis and properties of 5-bromocyclohepta[b]furan-4-one, 2081–3
BROMOCYCLOHEXADIENONE
Cyclization of polyenes. Part 32. Selective bromination of polyenes by 2,4,4,6-tetrabromocyclohexa-2,5-dienone, 1051–6
BROMOESTER
Reaction between 1,1-dilithioalkyl phenyl sulfones and ω-bromo esters. Synthesis of cyclic vinyl ethers, 260–3
BROMOETHOXYHYDROXYBENZOYLOXYPROPIONATE
Synthesis of ethyl 3-bromo-2-ethoxy-2-(4-hydroxybenzoyloxy)propionate and attempts at cyclization. A correction, 2691–2
BROMOFLUOROMETHYLAMINE
Polyfluoroalkyl derivatives of nitrogen. Part 44. The reactions of N-bromobis(trifluoromethyl)amine with open-chain 1,3-dienes and cyclohexene under ionic conditions, 372–7
BROMOFLUOROPYRIDYL
Partially fluorinated heterocyclic compounds. Part 12. Novel internal Diels–Alder adducts via Claisen rearrangement intermediates from tetrafluoro-4- and -3-pyridyl prop-2-enyl ethers. Syntheses of tetrafluoro-3-aza- and -4-aza-tricyclo[3.3.-1.0^{2,7}]non-3-en-6-one, 102–6
BROMOGLUCOPYRANOSIDE
Photobromination of carbohydrate derivatives. Part 4. Observations on some glucopyranoside esters; a simple route to aryl α-L-idopyranosides, 2762–7
BROMOHYDROXYPROPYLBUTYLCYCLOHEXADIENONE
Reactions of 4-bromo-4-(1-hydroxypropyl)-2,6-di-tert-butylcyclohexa-2,5-dienone in methanolic sulfuric acid, 1595–8
BROMOMENTHYLOXYACETOXYBENZOPYRENE
(+)- and (–)-Benzo[a]pyrene 7,8-oxide: synthesis, absolute stereochemistry, and stereochemical correlation with other mammalian metabolites of benzo[a]pyrene, 2112–16
BROMOMETHYL
Bacteriostatic activity of fluoro analogs of 5-(2-hydroxyethyl)-4-methylthiazole, a metabolic intermediate in the biosynthesis of thiamine, 2026–8
BROMOMETHYLPYRIMIDINE
Bacteriostatic activity of fluoro analogs of 5-(2-hydroxyethyl)-4-methylthiazole, a metabolic intermediate in the biosynthesis of thiamine, 2026–8
BROMONITROPROPANE
Radical–nucleophilic substitution ($S_{RN}1$) reactions: preparation and reactions of α-nitrosulfides, 1407–13
BROMOOXABICYCLOOCTENONE
S_N' reactions on some cyclopentene derivatives employing simple nucleophiles and organocuprate reagents, 1847–52
BROMOPENICILLANIC
On the chemistry of β-lactamase inhibition by 6β-bromopenicillanic acid, 2322–9
BROMOPENTAACYLGLUCOPYRANOSE
Unsaturated carbohydrates. Part 22. Alkenes from 5-bromohexopyranose derivatives, 1535–9
BROMOPHENOL
Reactions of alkyllithium compounds with aryl halides. 2617–25
BROMOPHENYL
Studies on the synthesis of heterocyclic compounds. Part 832. A simple and efficient synthesis of apomitomycin derivatives; potential intermediate for mitomycin synthesis, 1607–13
BROMOPHENYLACETATE
Studies on the synthesis of heterocyclic compounds. Part 832. A simple and efficient synthesis of apomitomycin derivatives; potential intermediate for mitomycin synthesis, 1607–13
BROMOPHENYLPYRROLIDINYLIDENEACETATE
Studies on the synthesis of heterocyclic compounds. Part 832. A simple and efficient synthesis of apomitomycin derivatives; potential intermediate for mitomycin synthesis, 1607–13
BROMOTRYPTOPHAN
Synthesis of 5- and 7-bromotryptophan and of [5-bromotryptophan^9]-β-coritcotropin-(1–24)-tetracosapeptide, a highly potent corticotrophin analog, 1928–32
BROMOVINYL
Pyrethroid photochemistry: mechanistic aspects in reactions of the (dihalovinyl)cyclopropanecarboxylate substituent, 728–32
BROMOVINYLCYCLOPROPANECARBOXYLATE
Pyrethroid photochemistry: mechanistic aspects in reactions of the (dihalovinyl)cyclopropanecarboxylate substituent, 728–32
BROMOXYLOPYRANOSE
Photobromination of carbohydrate derivatives. Part 5. Preparation and reactions of (5S)-1,2,3,4-tetra-O-acetyl-5-bromo-β-D-xylopyranose; a new type of 'double-headed' nucleoside, 2767–73
BRYOCOUMARATE
Bryocoumaric acid, a new triterpene from Bryonia dioica, 2933–6
BRYONIA
Bryocoumaric acid, a new triterpene from Bryonia dioica, 2933–6
BUTADIENE
Cooligomerization of butadiene and carbon dioxide catalyzed by tertiary phosphine–palladium complexes, 693–8
BUTENE
Fluoro olefin chemistry. Part 13. A further route to perfluoro-2,3-dimethylbut-2-ene and the photochemical rearrangement of some perfluoroalkyl olefins, 487–9
Addition of free radicals to unsaturated systems. Part 23. Photochemical and thermal reactions of trifluoroiodomethane with but-2-ene and but-1-ene, 927–32
BUTENOATE
Synthetic studies in the α-kainic acid (2,3-trans,3,4-cis-2-carboxy-4-isopropenylpyrrolidin-3-ylacetic acid) series, 2542–8
BUTENYL
Formation of allyl and cyclopropylcarbinyl sulfides in the regiospecific reactions of arenesulfenyl chlorides with allyl- and but-3-enylcobaloximes, 2021–5
BUTENYLGLYOXIMATOPYRIDINECOBALT
Formation of allyl and cyclopropylcarbinyl sulfides in the regiospecific reactions of arenesulfenyl chlorides with allyl- and but-3-enylcobaloximes, 2021–5
BUTYL
Reactions of 4-bromo-4-(1-hydroxypropyl)-2,6-di-tert-butylcyclohexa-2,5-dienone in methanolic sulfuric acid, 1595–8
BUTYLDIAZOMETHANE
Steric effects in the ring expansion of coumarins by 2-diazopropane and tert-butyldiazomethane, 2937–42
BUTYLDIMETHYLSILOXYTRICYCLOHEPTANONE
Conjugate, homoconjugate, and 1,2-additions of acetylene nucleophiles and their application to prostaglandin synthesis, 2346–52
BUTYLHEXAFLUORONAPHTHYLLITHIUM
Polycyclic fluoroaromatic compounds. Part 10. Nucleophilic replacement of fluorine in heptafluoro-2-naphthyllithium, 2494–6
BUTYLPHOSPHINIC
N-Chloro- and NN-dichloro derivatives of some phosphinic amides: preparation and reactions with anthracene, anisole, and triphenylarsine, 705–11
BUTYLSTANNANE
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 14. A useful radical–deamination reaction, 2657–64
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 15. The selective modification of neamine by radical-induced deamination, 2665–9
BUTYLTELLUROCARBONYLOXY
Synthesis and reactions of tert-butyltellurocarbonyloxy alkanes, 2191–5

BUTYNEDIOATE
Heterocyclic compounds with bridgehead nitrogen atoms. Part 7. The synthesis of pyrrolo[2,1,5-cd]indolizines ([2,2,3]cyclazines) and pyrazino[2,1,6-cd]cyclazines) (6-aza[2,2,3]cyclazines) from 3H-pyrrolizine, 1319–23
CA
Cyclodepsipeptides from Beauveria bassiana. Part 3. The isolation of beauverolides Ba, Ca, Ja, and Ka, 2878–80
CADINYLANGOLENSIN
Novel α-methyldeoxybenzoins from the heartwood of Pterocarpus angolensis D.C.: absolute configuration and conformation of the first sesquiterpenylangolensins, and x-ray crystal structure of 4-O-α-cadinylangolensin, 2179–83
CALCATIN
Stereochemistry of the hexosulose in cardenolide glycosides of the Asclepiadaceae, 2162–8
CALONECTRIA
Microbiological hydroxylation. Part 23. Hydroxylations of fluoro-5α-androstanones by the fungi Calonectria decora, Rhizopus nigricans, and Aspergillus ochraceus, 750–5
CALOTOXIN
Stereochemistry of the hexosulose in cardenolide glycosides of the Asclepiadaceae, 2162–8
CAMPHENE
A study of the reaction between the dichloromethylphosphine–aluminum chloride complex and terpenes. Part 2. Reaction of the dichloromethylphosphine–aluminum chloride complex and camphene, and an x-ray crystallographic study of the products, 2136–40
CARALYNE
Reaction of protoberberine-type alkaloids. Part 12. A facile method for regiospecific oxygenation and excited oxidative ring-cleavage of berberine alkaloids, 911–18
CARBAMOYLIMINOCHROMENE
Isomerization of 2-aryl-4-oxo-2,3-dihydrobenzopyrano[2,3-d]pyrimidines to 2-aryl-4-hydroxy-5H-benzopyrano[2,3-d]pyrimidines, 1335–7
CARBANION
Reactions involving fluoride ion. Part 19. Observable perfluorocycloalkyl anions, 435–9
CARBAZOLE
The reactions of some tetrahydro-β-carbolines, of hexahydroazepino[3,4-b]indoles, and of tetrahydrocarbazolones with arenesulfonyl azides, 1512–15
Condensation of αβ-unsaturated amines with perfluoroarenes, 2845–50
CARBOHYDRATE
The S-alkylation of sulfides by an activated carbohydrate epimine under acidic catalysis: the formation of α-acetamido-sulfides. Part 4. Reactions with dithioacetals and monothioacetals, 540–52
Partial protection of carbohydrate derivatives. Part 4. Regioselective 2′-O-deacylation of fully acylated purine and pyrimidine ribonucleosides with hydroxylaminium acetate, 563–73
The allyl ether as a protecting group in carbohydrate chemistry. Part 11. The 3-methylbut-2-enyl ('prenyl') group, 738–40
Novel reagent system for converting a hydroxy-group into an iodo-group in carbohydrates with inversion of configuration. Part 2, 2866–9
CARBOLINE
The reactions of some tetrahydro-β-carbolines, of hexahydroazepino[3,4-b]indoles, and of tetrahydrocarbazolones with arenesulfonyl azides, 1512–15
CARBON
Carbon–13 nuclear magnetic resonance assignments and biosynthesis of the mycotoxin ochratoxin A, 52–4
Heterocyclic compounds. Part 6. Synthesis of 1,3,4-thiadiazolidines from the reactions of phenyl hydrazones with phenyl isothiocyanate and carbon disulfide, 574–8
Cooligomerization of butadiene and carbon dioxide catalyzed by tertiary phosphine–palladium complexes, 693–8
Polyhaloaromatic compounds. Part 42. Carbon–13 NMR spectra of polyhalopyridines and pyrimidines, 1370–80
Derivatives of 3H-1,2,3-triazolo[4,5-d][1,3]thiazine, a new heterocyclic nucleus. Some shifts of a methylene group from a nitrogen to a sulfur atom, 2009–12
Polymeric proanthocyanidins. Stereochemistry, structural units, and molecular weight, 2278–86
Chain-extension reactions of acetylenes. Part 4. Reaction of 1,3-dilithioacetylides with carbonyl electrophiles, hexamethylphosphoric triamide, and benzylidenaniline, 2338–45
18-Substituted steroids. Part 5. Further studies on the synthesis of 11β,18,21-trihydroxypregn-4-ene-3,20-dione ('18-hydroxycorticosterone'), 2591–6
CARBONATE
Synthesis of N-hydroxymaleimide and N-hydroxyitaconimide and their related derivatives, 2122–5
CARBONATION
Polycyclic fluoroaromatic compounds. Part 10. Nucleophilic replacement of fluorine in heptafluoro-2-naphthyllithium, 2494–6
CARBONYL
Organoiron complexes in organic synthesis. Part 4. Direct-ring connection between highly substituted centers. A potential approach to trichothecane synthesis, 395–9
Organoiron complexes in organic synthesis. Part 5. Spirocyclization reactions of tricarbonylcyclohexadienyliumiron complexes, 400–5
Oxidation of ketone and aldehyde hydrazones, oximes and semicarbazones, and of hydroxylamines, and hydrazo-compounds, using benzeneseleninic anhydride, 1212–17
The conversion of aldehydes and ketones via their 2,4,6-triisopropylbenzenesulfonyl hydrazones into nitriles containing one additional carbon atom, 1487–92
New olefin and oxirane syntheses from carbonyl compounds, and diethyl sodiophosphonate anions and 1-aminophosphonate amino-anions, 1731–8
Organoiron complexes in organic synthesis. Part 6. Dienolonium equivalents: tricarbonyl-[1-alkoxy-2-(1-5-η-4-methoxycyclohexa-2,4-dienylium)ethane]iron hexafluorophosphates and related complexes leading to masked 4,4-disubstituted cyclohexenones, 2238–43
Polymer-supported phosphonates. Olefins from aldehydes, ketones, and dioxolanes by means of polymer-supported phosphonates, 2516–19
CARBONYLATION
Formylation and acylation reactions catalyzed by trifluoromethanesulfonic acid, 181–6
Pentacarbonyliron-promoted conversion of 3a,7a-dihydroindenones into indanones, 444–7
CARBONYLCYCLOHEXADIENYLIUMIRON
Organoiron complexes in organic synthesis. Part 7. Regio- and stereochemistry of ring connection reactions relevant to steroid and terpene synthesis. Structure of tricarbonyl(methyl 1-[2-5-η-4-methoxy-1-methylcyclohexa-2,4-dienyl]-3-hydroxymethyl-3-methyl-2-oxocyclohexanecarboxylate)iron, 2774–80
CARBONYLCYCLOHEXADIENYLOXOCYCLOHEXANECARBOXYLATEIRON
Organoiron complexes in organic synthesis. Part 7. Regio- and stereochemistry of ring connection reactions relevant to steroid and terpene synthesis. Structure of tricarbonyl(methyl 1-[2-5-η-4-methoxy-1-methylcyclohexa-2,4-dienyl]-3-hydroxymethyl-3-methyl-2-oxocyclohexanecarboxylate)iron, 2774–80
CARBONYLIRON
Pentacarbonyliron-promoted conversion of 3a,7a-dihydroindenones into indanones, 444–7
CARBOXALDEHYDE
Selective hydrogenation of 4,5-dihydro-1,3-oxazin-6-ones to carboxaldehyde derivatives; chemical differentiation between acylazetidin-2-ones and the corresponding isomeric oxazin-6-ones, 378–80
CARBOXAMIDINE
Purines, pyrimidines, and imidazoles. Part 56. Some aminoimidazolecarboxamidines and derived adenines, 2728–31
CARBOXYLATE
Purines, pyrimidines and imidazoles. Paart 52. New syntheses of some 1-β-D-arabinofuranosylaminoimidazoles and of related purine nucleosides, including 9-β-D-arabinofuranosyladenine, 2304–9
Purines, pyrimidines and imidazoles. Part 53. Synthesis of some 5-halo analogs of metiamide and cimetidine, 2310–15
CARBOXYLIC
Purines, pyrimidines, and imidazoles. Part 54. Interconversion of some intermediates in the de novo biosynthesis of purine nucleotides, 2316–21
Utilization of sulfur-containing leaving groups. Part 2. Monitored reduction of carboxylic acids into alcohols or aldehydes via 3-acylthiazolidine-2thiones by sodium borohydride or diisobutylaluminum hydride, 2470–3

CARBOXYMETHYLENEEPOXYCYCLOHEXENECARBOXYLATE
Studies on the syntheses of heterocyclic compounds. Part 855. Cycloaddition reaction of bis(trimethylsilyl)allenedicarboxylate with homocyclic dienes, 2801–4
CARCINOSTATICITY
Syntheses of 1- and 6-S- and 1- and 6-Se-derivatives of 2-amino-2-deoxy-α/β-D-glucopyranose, 2287–93
CARDENOID
Stereochemistry of the hexosulose in cardenolide glycosides of the Asclepiadaceae, 2162–8
CARDENOLIDE
Stereochemistry of the hexosulose in cardenolide glycosides of the Asclepiadaceae, 2162–8
CARDENOLINE
7β,8β-Epoxycardenolide glycosides of Asclepias eriocarpa, 2169–73
CARYOPHYLLENE
Chemistry of hop constituents. Part 42. The formation and characterization of sesquiterpene episulfides in the essential oil of hops, 311–13
CASBENE
Total synthesis of the macrocyclic diterpene (–)-casbene, the putative biogenetic precursor of lathyrane, tigliane, ingenane, and related terpenoid structures, 1711–17
CATALYSIS
Acid-catalyzed rearrangement of bis-5,6-dihydro-4H-1,3-thiazin-2-yl and other disulfides and related reactions, 665–71
Metal-catalyzed organic photoreactions. Evidence for the long-range electron-transfer mechanism in the uranyl- or iron(III)-catalyzed photoreactions of olefins, 947–9
Alkyltrifluoromethanesulfonates as alkylating reagents for aromatic compounds, 2887–94
The chemistry of nitrilium salts. Part 1. Acylation of phenols and phenol ethers with nitriles and trifluoromethanesulfonic acid, 2894–900
CATALYST
New aspects in the base-promoted cyclization of o-vinylbenzohydrazonyl chlorides, 116–18
Formylation and acylation reactions catalyzed by trifluoromethanesulfonic acid, 181–6
β-Lactam antibiotics. Part 2. New methods of cyclizing hydrazinothioazetidinones to cephem ring systems, 233–6
Acid-catalyzed reactions of 1α,2α-epoxy-1β-methyl- and 1α-hydroxy-1β-methyl 5α-steroids, 440–3
Pentacarbonyliron-promoted conversion of 3a,7a-dihydroindenones into indanones, 444–7
Addition reactions of benzo[b]thiophene. Part 1. Self-addition and addition of simple aromatic hydrocarbons, 677–85
The allyl ether as a protecting group in carbohydrate chemistry. Part 11. The 3-methylbut-2-enyl ('prenyl') group, 738–40
N-Halo compounds. Part 7. Synthesis and iodine-catalyzed rearrangement to 6-chloroimino-1-azacyclohexadienes of 4-substituted 2-(dichloroamino)-3,5,6-trifluoropyridines, 817–21
Alkynyl- and dialkynylquinoxalines. Synthesis of condensed quinoxalines, 1384–9
Intramolecular alkylation of phenols. Part 4. Base-catalyzed cyclization of phenolic enones. Scope and limitations, 1555–66
Selective reactions between phenols and formaldehyde. A novel route to salicylaldehydes, 1862–5
'Le BOP' reagent and imidazole for selective O-acylation of trehalose, 1940–3
Pyranoside derivatives of 3-deoxyald-2-ulosonic acids, 1971–7
Reactions between 3-nitrochromone and diazo alkanes; Michael additions catalyzed by diazo alkanes as nitrogen bases, 2049–53
Photoinduced reduction of fluoren-9-ol and its acetate by aliphatic amines, 2613–16
Catalytic and noncatalytic addition of aromatic amines to terminal acetylenes in the presence of mercury(II) chloride and acetate, 2732–7
Alkyltrifluoromethanesulfonates as alkylating reagents for aromatic compounds, 2887–94
The chemistry of nitrilium salts. Part 1. Acylation of phenols and phenol ethers with nitriles and trifluoromethanesulfonic acid, 2894–900
CATALYTIC
Selectivity in the hydrogenation of 6- and 8-substituted quinolines, 1933–9
CATALYZED
Reactions involving fluoride ion. Part 18. Derivatives of perfluorocycloalkenes, 429–34
Cooligomerization of butadiene and carbon dioxide catalyzed by tertiary phosphine–palladium complexes, 693–8
Base catalyzed rearrangements involving ylide intermediates. Part 7. The rearrangements of allyl(pentadienyl)- and propynyl(pentadienyl)-ammonium cations. The [5,4] sigmatropic rearrangement, 2033–48
CATECHOL
Benzodioxanes by oxidative phenol coupling. Synthesis of silybin, 775–8
CATION
Base catalyzed rearrangements involving ylide intermediates. Part 1. The rearrangements of diallyl- and allylpropynylammonium cations, 1436–49
Coenzyme models. Part 23. Formation and reactivity of the stable 'quinone form' of flavin in cationic polymer matrixes, 1622–5
v-Triazolo[4,5-d]pyrimidines (8-azapurines). Part 22. Synthesis of 2-amino- and 2-oxo-derivatives of N-alkyl-1,6-dihydro-8-azapurines from the corresponding 4-amino-5-aminomethyl-1,2,3-triazoles, 2918–22
CD
Chiroptical studies. Part 96. Short wavelength (190 nm) circular dichroism of ketones, 787–803
Chiroptical studies. Part 98. The short-wavelength circular dichroism of ketones in 2,2,2-trifluoroethanol, 1810–19
Synthesis, absolute configuration, and circular dichroism of the enantiomers of fluorosuccinic acid, 2029–32
CENTROLOBOL
Methods for the construction of linear 1,7-diarylheptanoids; synthesis of di-O-methylcentrolobol and precursors (synthetic and biosynthetic) to the meta,meta-bridged biphenyls myricanol and myricanone, 614–22
CEPHALOSPORIN
A method for the preparation of 7α-methoxycephalosporins, 1109–13
CEPHEM
β-Lactam antibiotics. Part 2. New methods of cyclizing hydrazinothioazetidinones to cephem ring systems, 233–6
CESIUM
Fluorinations with complex metal fluorides. Part 5. Fluorination of nitriles over cesium tetrafluorocobaltate(III), 1507–11
CHAIN
Branched-chain sugars. Part 15. Synthesis of 1L-(1,2,3',4,5/3,6)-3-hydroxymethyl-4,5-O-isopropylidene-3,3'-O-methylene-6-nitro-2,3,4,5-tetrahydroxycyclohexenecarbaldehyde dimethyl acetal, a potential key compound for total synthesis of optically active tetrodotoxin, 14–19
Diazaindenes (azaindoles). Part 7. Formation of imidazo[1,2-a]pyridinium-8-carboxylate in an attempt to prepare pyrrolo[2,3-b]pyridin-3-one, 132–5
Branched-chain sugars. Part 7. A route to sugars with two-carbon branches using 1-methoxyvinyllithium, 269–72
Branched-chain sugars. Part 8. The synthesis of C-acetylpyranosides and a pillarose derivative using 1-methoxyvinyllithium, 273–6
Methods for the construction of linear 1,7-diarylheptanoids; synthesis of di-O-methylcentrolobol and precursors (synthetic and biosynthetic) to the meta,meta-bridged biphenyls myricanol and myricanone, 614–22
Amino acids and peptides. Part 44. Synthesis of protected peptides related to sequence 23–30 of bovine insulin B-chain, 2797–800
CHALCONE
Electrocyclic reactions of protonated chalcones: synthesis of 3-arylindan-1-ones, 837–42
Pyrolytic elimination of hydrogen halide and halogen from 2,3-dihaloketones, 1299–305
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
CHIRAL
Chiroptical studies. Part 98. The short-wavelength circular dichroism of ketones in 2,2,2-trifluoroethanol, 1810–19
CHLORAMINE
Condensed isothiazoles. Part 5. Thieno[2,3-d]isothiazoles and thien[3,2-d]isothiazoles, 1029–37
Polyfluoroalkyl derivatives of nitrogen. Part 48. The addition of N-haloamines $(CF_3)_2NX$ to cyclohexa-1,3- and -1,4-dienes; a new synthesis of NN-bis(trifluoromethyl)aniline, 1544–50
CHLORIDE
New aspects in the base-promoted cyclization of o-vinylbenzohydrazonyl chlorides, 116–18

CHLORIDE(contd)
Addition reactions of benzo[b]thiophene. Part 1. Self-addition and addition of simple aromatic hydrocarbons, 677–85
Synchronous skeletal rearrangement of D-nor-5α-androstane-16α- and -16β-carbonyl m-chlorobenzoyl peroxides, 943–6
7-Alkylation and 7-sulfonylation of 5,6-dihydroimidazolo[2,1-b]thiazoles, 1773–8
Reaction of 1,2,4,5-tetroxan with antimony pentachloride or liquid sulfur dioxide: heterolytic fission of carbon–oxygen or oxygen–oxygen bonds, 1950–4
Formation of allyl and cyclopropylcarbinyl sulfides in the regiospecific reactions of arenesulfenyl chlorides with allyl- and but-3-enylcobaloximes, 2021–5
Studies related to penicillins and cephalosporins. Part 6. Synthesis of the (±)-dinorpenicillin-spirocyclopentane system, 2228–32
Syntheses of 1- and 6-S- and 1- and 6-Se-derivatives of 2-amino-2-deoxy-α/β-D-glucopyranose, 2287–93
Purines, pyrimidines and imidazoles. Pasrt 52. New syntheses of some 1-β-D-arabinofuranosylaminoimidazoles and of related purine nucleosides, including 9-β-D-arabinofuranosyladenine, 2304–9
CHLORINATION
Studies related to penicillins and cephalosporins. Part 5. A new relay synthesis of penicillin, 11–13
N-Chloro- and NN-dichloro derivatives of some phosphinic amides: preparation and reactions with anthracene, anisole, and triphenylarsine, 705–11
CHLORINE
Free radical reactions of halogenated bridged polycyclic compounds. Part 18. The addition of chlorine and bromine to 1,2,3,4,7,7-hexachloro-5-methylnorbornadiene, 302–5
CHLORINOLYSIS
Studies related to penicillins and cephalosporins. Part 6. Synthesis of the (±)-dinorpenicillin-spirocyclopentane system, 2228–32
CHLORO
Free radical reactions of halogenated bridged polycyclic compounds. Part 18. The addition of chlorine and bromine to 1,2,3,4,7,7-hexachloro-5-methylnorbornadiene, 302–5
N-Halo compounds. Part 7. Synthesis and iodine-catalyzed rearrangement to 6-chloroimino-1-azacyclohexadienes of 4-substituted 2-(dichloroamino)-3,5,6-trifluoropyridines, 817–21
Steroids. Part 39. 5-Chloro-5β-cholestane, 1904–8
Purines, pyrimidines and imidazoles. Part 53. Synthesis of some 5-halo analogs of metiamide and cimetidine, 2310–15
Heterocyclic polyfluoro compounds. Part 32. Photochemical reactions of 3-chlorotetrafluoro- and 3,5-dichlorotrifluoropyridines with olefins, and their photoreduction, 2520–2
Reactions of androsta-3,5-dienes with m-chloroperbenzoic acid, 2581–6
The chemistry of o-phenylenediisothiocyanate. Part 3. Studies on the syntheses of heterocyclic compounds, 2608–11
CHLOROACETATE
Reactions of halomethanes in the vapor phase. Part 4. The reactions of imidazoles with chloroform at 500°C, and a comparison with their liquid-phase reactions with trichloroacetate ion or hexachloroacetone and base, 1427–30
CHLOROACYLAMINO
Inhibitors of pyrimidine biosynthesis. Part 1. Synthesis of potential transition-state analogs of aspartate transcarbamylase, 2721–7
CHLOROALKYL
Alkylidene transfer from (monochloroalkyl)mercury(II) compounds to aromatic amines; selective C-alkylation, 1420–6
CHLOROALKYLMERCURY
Alkylidene transfer from (monochloroalkyl)mercury(II) compounds to aromatic amines; selective C-alkylation, 1420–6
CHLOROAMIDE
N-Chloro- and NN-dichloro derivatives of some phosphinic amides: preparation and reactions with anthracene, anisole, and triphenylarsine, 705–11
CHLOROAMINOMETHYLPHOSPHETAN
N-Chloro- and NN-dichloro derivatives of some phosphinic amides: preparation and reactions with anthracene, anisole, and triphenylarsine, 705–11
CHLOROAMINOPHOSPHETAN
N-Chloro- and NN-dichloro derivatives of some phosphinic amides: preparation and reactions with anthracene, anisole, and triphenylarsine, 705–11
CHLOROAMINOTRIFLUOROPYRIDINE
N-Halo compounds. Part 7. Synthesis and iodine-catalyzed rearrangement to 6-chloroimino-1-azacyclohexadienes of 4-substituted 2-(dichloroamino)-3,5,6-trifluoropyridines, 817–21
CHLOROBENZENESULFONYL
The reactions of some tetrahydro-β-carbolines, of hexahydroazepino[3,4-b]indoles, and of tetrahydrocarbazolones with arenesulfonyl azides, 1512–15
CHLOROFLUOROKETONE
Heterocyclic polyfluoro-compounds. Part 33. Photochemical oxetane formation from fluoro ketones and perfluoro aldehydes and 1,2-difluoroethylene, 2258–67
CHLOROFLUOROPYRIDINE
Heterocyclic polyfluoro compounds. Part 32. Photochemical reactions of 3-chlorotetrafluoro- and 3,5-dichlorotrifluoropyridines with olefins, and their photoreduction, 2520–2
CHLOROFORM
Ebenaceae extractives. Part 8. The structure of diosquinone and reactions of related quinone epoxides, 1161–4
Reactions of halomethanes in the vapor phase. Part 4. The reactions of imidazoles with chloroform at 500°C, and a comparison with their liquid-phase reactions with trichloroacetate ion or hexachloroacetone and base, 1427–30
Reactions of halomethanes in the vapor phase. Part 5. The reactions of imidazolines, anils, and 1-methylimidazole with chloroform at 550°C, and a comparison with their liquid-phase reactions with trichloroacetate ion or hexachloroacetone and base, 1431–5
CHLOROFORMATE
Radical-initiated reduction of chloroformates to alkanes by tri-n-propylsilane. A method for removal of unwanted hydroxy-groups from organic molecules, 1207–11
CHLOROHALOPYRIDINE
Polyhalogenoaromatic compounds. Part 43. Inter- and intra-molecular reactions of polychloroaromatic compounds with copper, 1682–7
CHLOROIMINO
N-Halo compounds. Part 7. Synthesis and iodine-catalyzed rearrangement to 6-chloroimino-1-azacyclohexadienes of 4-substituted 2-(dichloroamino)-3,5,6-trifluoropyridines, 817–21
CHLOROIMINOAZACYCLOHEXADIENE
N-Halo compounds. Part 7. Synthesis and iodine-catalyzed rearrangement to 6-chloroimino-1-azacyclohexadienes of 4-substituted 2-(dichloroamino)-3,5,6-trifluoropyridines, 817–21
CHLOROLACTAM
Studies related to penicillins and cephalosporins. Part 5. A new relay synthesis of penicillin, 11–13
CHLOROMETHANESULFONAMIDE
The chemistry of o-phenylenediisothiocyanate. Part 3. Studies on the syntheses of heterocyclic compounds, 2608–11
CHLOROMETHYLNORBORNADIENE
Free radical reactions of halogenated bridged polycyclic compounds. Part 18. The addition of chlorine and bromine to 1,2,3,4,7,7-hexachloro-5-methylnorbornadiene, 302–5
CHLOROMETHYLPHOSPHINE
A study of the reaction between the dichloromethylphosphine–aluminum chloride complex and terpenes. Part 2. Reaction of the dichloromethylphosphine–aluminum chloride complex and camphene, and an x-ray crystallographic study of the products, 2136–40
CHLORONITROBENZOTHIAZOLE
Synthesis and reactions of azidobenzothiazoles and -benzo[b]thiophenes. Novel thiazolo[4,5-g]benzoxazoles and dihydrothieno[3,2-g]benzoxazoles, 2358–61
CHLOROPERBENZOIC
Synchronous skeletal rearrangement of D-nor-5α-androstane-16α- and -16β-carbonyl m-chlorobenzoyl peroxides, 943–6
Reactions of androsta-3,5-dienes with m-chloroperbenzoic acid, 2581–6
CHLOROPHENYLDIMETHYL
The chemistry of o-phenylenediisothiocyanate. Part 3. Studies on the syntheses of heterocyclic compounds, 2608–11
CHLOROPHENYLDIMETHYLSULFIMIDE
The chemistry of o-phenylenediisothiocyanate. Part 3. Studies on the syntheses of heterocyclic compounds, 2608–11
CHLOROPURINYLXYLOPYRANOSYLURACIL
Photobromination of carbohydrate derivatives. Part 5. Preparation and reactions of (5S)-1,2,3,4-tetra-O-acetyl-5-bromo-β-D-xylopyranose; a new type of 'double-headed' nucleoside, 2767–73
CHLOROQUINOXALINE
Alkynyl- and dialkylnylquinoxalines. Synthesis of condensed quinoxalines, 1384–9

CHLOROSULFENYL
Studies related to penicillins and cephalosporins. Part 6. Synthesis of the (±)-dinorpenicillin-spirocyclopentane system, 2228–32
CHLOROSULFONATE
Reaction of ozonides with methanol in the presence of chlorosulfonic acid: selective cleavage of the carbon–oxygen bond of the peroxide bridge, 2909–13
CHLOROTHIOARENE
Formation of allyl and cyclopropylcarbinyl sulfides in the regiospecific reactions of arenesulfenyl chlorides with allyl- and but-3-enylcobaloximes, 2021–5
CHOLESTADIENEDIOL
Isolation and structural elucidation of a novel sterol metabolite of Fusarium sporotrichioides 921, 2914–17
CHOLESTADIENONE
Calciferol and its relatives. Part 25. A chemical degradation of 3α-hydroxycholest-9(11)-ene to des-AB-cholestane derivatives, 892–6
CHOLESTANE
Calciferol and its relatives. Part 25. A chemical degradation of 3α-hydroxycholest-9(11)-ene to des-AB-cholestane derivatives, 892–6
Steroids. Part 39. 5-Chloro-5β-cholestane, 1904–8
CHOLESTANOL
Radical-initiated reduction of chloroformates to alkanes by tri-n-propylsilane. A method for removal of unwanted hydroxy-groups from organic molecules, 1207–11
CHOLESTANONE
New steroidal heterocycles: the synthesis and structure of androsteno[2,3-g]-, androstano[3,2-f]-, and androsteno[16,17-g]pyrazolo[1,5-a]pyrimidines, 481–6
Steroids. Part 2. C–C bond cleavage of α-azido-steroidal ketones, 1916–19
CHOLESTANOPYRAZOLOPYRIMIDINE
New steroidal heterocycles: the synthesis and structure of androsteno[2,3-g]-, androstano[3,2-f]-, and androsteno[16,17-g]pyrazolo[1,5-a]pyrimidines, 481–6
CHOLESTANYL
Conversion of thiocarbonyl compounds into their corresponding oxo-derivatives using benzeneseleninic anhydride, 1650–3
CHOLESTENE
Oxidation of secondary allylic acetates with chromium(VI) reagents 1769–72
CHOLESTENONE
Calciferol and its relatives. Part 26. A conversion of cholesterol into 8-hydroxymethyl-des-AB-cholest-8-ene, 897–901
Oxidation of secondary allylic acetates with chromium(VI) reagents 1769–72
CHROMAN
Synthesis of 3-hydroxy-2,3,4,5-tetrahydro-3-methyl[1]benzoxepins by ring-closure of isoprenyl terminal epoxides, 1820–5
CHROMATE
Oxidation of secondary allylic acetates with chromium(VI) reagents 1769–72
CHROMENECARBOXAMIDE
Isomerization of 2-aryl-4-oxo-2,3-dihydrobenzopyrano[2,3-d]pyrimidines to 2-aryl-4-hydroxy-5H-benzopyrano[2,3-d]pyrimidines, 1335–7
CHROMONE
Reactions between 3-nitrochromone and diazo alkanes; Michael additions catalyzed by diazo alkanes as nitrogen bases, 2049–53
CHROMYL
Chromyl halide oxidation of steroid alkenes, 639–42
CIDNP
Polyfluorobicyclo[2.2.1]heptanes. Part 11. Bridgehead radicals: their generation, reactions, and CIDNP effects, 217–20
CIMETIDINE
Purines, pyrimidines and imidazoles. Part 53. Synthesis of some 5-halo analogs of metiamide and cimetidine, 2310–15
CINNAMATE
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
CINNAMONITRILE
The reaction of para-substituted β-aminocinnamonitriles with benzonitrile oxides, 1635–40
CINNAMYL
Base catalyzed rearrangements involving ylide intermediates. Part 7. The rearrangements of allyl(pentadienyl)- and propynyl(pentadienyl)-ammonium cations. The [5,4] sigmatropic rearrangement, 2033–48
CINNAMYLPENTADIENYLAMMONIUM
Base catalyzed rearrangements involving ylide intermediates. Part 7. The rearrangements of allyl(pentadienyl)- and propynyl(pentadienyl)-ammonium cations. The [5,4] sigmatropic rearrangement, 2033–48
CITRAZINATE
The bacterial pigment from Pseudomonas lemonnieri. Part 2. The synthesis of 3-n-octanamidopyridine-2,5,6-trione: the structure and synthesis of lemonnierin, 1788–95
CITRININ
New insights into polyketide metabolism; the use of protium as a tracer in the biosynthesis of citrinin by Penicillium citrinum, 2244–8
CITRONIN
New insights into polyketide metabolism; the use of protium as a tracer in the biosynthesis of citrinin by Penicillium citrinum, 2244–8
CLAVAM
Total synthesis of β-lactamase inhibitors based on the 4-oxa-1-azabicyclo[3.2.0]heptan-7-one ring system, 2222–7
CLAVINE
Photocyclization of enamides. Part 16. A new synthesis of clavines. The stereostructure of costaclavine, 208–11
CLAVULANATE
Synthesis of tert-butyl 2-(2-methoxycarbonyl-1-methylethylidene-)penam-3-carboxylates; clavulanic acid analogs, 187–90
CLEAVAGE
The chemistry of 4-mercaptoazetidin-2-ones. Part 1. Preparation and properties of (3R,4R)-4-mercapto-3-phenoxyacetamidoazetidin-2-one, 146–9
The photochemistry of ketones derived from carbohydrates. Part 8. Type I cleavage of 1,2:4,5-di-O-isopropylidene-β-D-erythro-2,3-hexodiulose-2,6-pyranose: a synthesis of D-ribulose from D-fructose, 277–81
Selective hydrogenation of 4,5-dihydro-1,3-oxazin-6-ones to carboxaldehyde derivatives; chemical differentiation between acylazetidin-2-ones and the corresponding isomeric oxazin-6-ones, 378–80
Synthetic approach to (±)-vincamine via cleavage of an α-diketone monothioacetal. Alternative synthesis of (±)-eburnamine, (±)-isoeburnamine, and (±)-eburnamenine, 457–61
Ring opening or rearrangement versus N-oxidation in the action of peracids upon pyrrolo[2,3-b]pyridines, pyrrolo[2,3-b]pyrazines, and triazolo[1,5-a-]- and triazolo[4,3-a]pyrazine. Some chemical and spectroscopic properties of the triazolopyrazines and their N-oxides, 506–11
Ring C aromatic steroids. Part 2. Rearrangement of 16α,17α-epoxy- and 17α-hydroxy-5,7-dienes, 556–62
Transformations involving the pyrrolidine ring of nicotine, 579–85
Epoxy ring opening reactions of endo- and exo-3,4-epoxy-6-azabicyclo[3.2.0]heptan-7-ones, 690–2
Diisophorone and related compounds. Part 5. 2,7-Epoxydiisophoranes: oxirane cleavage by perchloric acid, 733–7
Stereospecific transformations of steroidal 2,3-aziridines into substituted amino thiols and ring-A fused heterocycles, 766–74
Total synthesis of prostaglandin-$F_{2\alpha}$ involving stereocontrolled and photo-induced reactions of bicyclo[3.2.0]heptanones, 852–7
The preparation and reactions of 2-benzyloxy-4-benzylideneoxazol-5-one, 858–64
Calciferol and its relatives. Part 25. A chemical degradation of 3α-hydroxycholest-9(11)-ene to des-AB-cholestane derivatives, 892–6
Reaction of protoberberine-type alkaloids. Part 12. A facile method for regiospecific oxygenation and excited oxidative ring-cleavage of berberine alkaloids, 911–18
Ebenaceae extractives. Part 8. The structure of diosquinone and reactions of related quinone epoxides, 1161–4
Base catalyzed rearrangements involving ylide intermediates. part 6. The rearrangements of diallyl- and allylpropynylammonium cations in protic media, 1477–86
Regio- and stereospecific synthesis in threo-3-amino-2-hydroxy acids, novel amino acids contained in aminopeptidase inhibitors of microbial origin, 1618–21
Cyclobutane ring opening of pin-2(10)-ene with mercury(II) salts. A new, high-yield synthesis of p-mentha-1,8-dien-7-ol, 1747–51
7-Alkylation and 7-sulfonylation of 5,6-dihydroimidazolo[2,1-b]thiazoles, 1773–8
Preparation of 3-imino-2-en-1-ones from 2-aralkylisoxazolium

CLEAVAGE(contd)
salts, 1866–9
Steroids. Part 2. C–C bond cleavage of α-azido-steroidal ketones, 1916–19
Adducts from quinones and diazoalkanes. Part 9. The adduct from 2-methyl-1,4-naphthoquinone and diazoethane and the derived secondary carbanion: regioisomerism in carbanion–quinone additions, 1994–2000
Reactions between 3-nitrochromone and diazo alkanes; Michael additions catalyzed by diazo alkanes as nitrogen bases, 2049–53
Branched-chain sugars. Part 11. An approach to the synthesis of D-evernitrose via the addition of iodine azide to a C-methylene sugar, 2061–4
The chemistry of fungi. Part 76. The synthesis and transformations of three stereoisomeric 2-(2,6-dimethoxybenzoyl)-3-methoxycarbonyl-7-oxabicyclo[2.2.1]heptanes, 2435–44
Studies on steroids. Part 47. Neighboring group effects. Part 1. Effect of α-hydroxy and acetoxy groups on the ring opening of steroidal 4,5-epoxides, 2503–6
Studies on heterocyclic chemistry. Part 21. Reactions of 3-mercapto- and 3-acylthio-3-isothiazoline-5-thiones: ring transformations, a base-induced ring cleavage, and thiol ester–thioxo ester rearrangements, 2693–9
Redox-photosensitized reactions. Part 6. Stereospecific ring cleavage of 1-phenoxy-1,2,2a,3,4,8b-hexahydrocyclobuta[a]naphthalene-8b-carbonitrile and its 2-methyl derivatives by redox-photosensitization, 2705–8
Efficient synthesis of a pregnane-type steroid. Total synthesis of (+)-5α-dihydropregnenolone [(+)-3β-hydroxy-5α-pregnan-20-one], 2805–7
Syntheses and reactions of spirocyclopropaneanthrones. Part 2. Rearrangements and cyclopropyl ring opening reactions of phenyl-substituted spirocyclopropaneanthrones and related compounds, 2835–41
Singlet oxygen photooxidation of some triazapentalenes, 2904–8
Reaction of ozonides with methanol in the presence of chlorosulfonic acid: selective cleavage of the carbon–oxygen bond of the peroxide bridge, 2909–13
CLEMMENSEN
Photochemical deoxygenation of an α-ketol: the dihydroflavonol–flavanone conversion, 1003–6
CLEOME
Structure and biosynthesis of cleomeprenols from the leaves of Cleome spinosa, 2098–104
CLEOMEPRENOL
Structure and biosynthesis of cleomeprenols from the leaves of Cleome spinosa, 2098–104
CLOSTRIDIUM
Studies of enzyme-mediated reactions. Part 13. Stereochemical course of the formation of histamine by decarboxylation of (2S)-histidine with enzymes from Clostridium welchii and Lactobacillus 30a, 43–51
CLOSURE
Further total syntheses of chlorine-containing lichen xanthones, 85–9
Synthesis of tert-butyl 2-(2-methoxycarbonyl-1-methylethylidene-)penam-3-carboxylates; clavulanic acid analogs, 187–90
Transformations involving the pyrrolidine ring of nicotine, 579–85
Total syntheses of the meta,meta-bridged biphenyls (±)-myricanol and myricanone, and of an isomeric biphenyl ether, a 14-oxa[7,1]metaparacyclophane, 623–8
Electrochemical reactions. Part 23. Intramolecular radical substitution during the reduction of 2-halo-N-methyl-N-naphthylbenzamides, 657–60
A simple and efficient total synthesis of the sesquiterpenes cuparene and iso-α-curcumene, from furan derivatives, 759–61
Base-catalyzed acyloin rearrangements: the first synthesis of 4-arylflavan-3-ones via chalcone epoxides, 1025–8
The chemistry of o-phenylene di-isothiocyanate. Part 1. Some reactions with N-nucleophiles, 1240–4
Intramolecular alkylation of phenols. Part 4. Base-catalyzed cyclization of phenolic enones. Scope and limitations, 1555–66
Intramolecular alkylation of phenols. Part 5. A regiospecific anionic ring closure of phenols via quinone methides, 1567–77
The bacterial pigment from Pseudomonas lemonnieri. Part 2. The synthesis of 3-n-octanamidopyridine-2,5,6-trione: the structure and synthesis of lemonnierin, 1788–95
Synthesis of 3-hydroxy-2,3,4,5-tetrahydro-3-methyl[1]benzoxepins by ring-closure of isoprenyl terminal epoxides, 1820–5
COBALT
Formation of allyl and cyclopropylcarbinyl sulfides in the regiospecific reactions of arenesulfenyl chlorides with allyl- and but-3-enylcobaloximes, 2021–5
COCHLIOBOLUS
Biosynthesis of cochlioquinones, 2686–90
COCHLIOQUINONE
Biosynthesis of cochlioquinones, 2686–90
COMPD
Polyhaloaromatic compounds. Part 41. Photochemical dehalogenation and arylation reactions of polyhaloaromatic and polyhaloheteroaromatic compounds, 648–56
Ene-type reactions involving transfer of acyl groups. Addition of 4-phenyl-1,2,4-triazoline-3,5-dione to various unsaturated compounds, 843–5
Reaction of 1,3-dipoles with 3-pyrrolidino-2-benzopyran-1-one, 846–8
Metal-catalyzed organic photoreactions. Evidence for the long-range electron-transfer mechanism in the uranyl- or iron(III)-catalyzed photoreactions of olefins, 947–9
The conversion of aldehydes and ketones via their 2,4,6-triisopropylbenzenesulfonyl hydrazones into nitriles containing one additional carbon atom, 1487–92
The reactions of some tetrahydro-β-carbolines, of hexahydroazepino[3,4-b]indoles, and of tetrahydrocarbazolones with arenesulfonyl azides, 1512–15
Conversion of thiocarbonyl compounds into their corresponding oxo-derivatives using benzeneseleninic anhydride, 1650–3
New olefin and oxirane syntheses from carbonyl compounds, and diethyl sodiophosphonate anions and 1-aminophosphonate amino-anions, 1731–8
'Le BOP' reagent and imidazole for selective O-acylation of trehalose, 1940–3
Heterocyclic polyfluoro-compounds. Part 33. Photochemical oxetane formation from fluoro ketones and perfluoro aldehydes and 1,2-difluoroethylene, 2258–67
Reductive deamination of primary amines, 2554–60
Alkyltrifluoromethanesulfonates as alkylating reagents for aromatic compounds, 2887–94
COMPETITIVE
Competitive cyclizations of singlet and triplet nitrenes. Part 8. The 1-(2-nitrenophenyl)pyrazoles and related systems, 982–94
COMPLEXATION
Preparation and properties of tertiary p-alkylarylphosphines containing straight-chain alkyl groups, 2233–7
COMPONENT
Identification of variose as 2,6-dideoxy-3-O-methyl-D-ribo-hexose (D-cymarose), 1800–3
CONCERTED
[6+3-] Cycloadditions of 1,1- and 1,3-diphenyl-2-azaallyllithium to cycloheptatriene, 672–4
CONDENSATION
Conversion of pyridines and quinolines into pyridazines and pyrazoles, 72–7
Acetogenin synthesis. Organocopper reagents, anions of 1,3-dithianes and of protected cyanohydrins as intermediates in ketide side-chain synthesis, 136–40
Alkyloxytris(dimethylamino)phosphonium salts. Part 21. Anomeric hydroxy-group activation of 2,3:4,6-di-O-isopropylidene-α-D-mannopyranose, thioglycosylation, and glycosylation, 381–4
Organoiron complexes in organic synthesis. Part 4. Direct-ring connection between highly substituted centers. A potential approach to trichothecane synthesis, 395–9
A new synthetic approach towards adriamycin, 643–7
Benzazoles. Part 12. Synthesis of 2-(tetrahydro-2-thienyl)benzimidazoles and their unsaturated derivatives by the reaction of 2-mercaptoalkylbenzimidazoles with β-electrophilic ketones, 699–704
N-Chloro- and NN-dichloro derivatives of some phosphinic amides: preparation and reactions with anthracene, anisole, and triphenylarsine, 705–11
Synthetic study on several eremophilane sesquiterpenes using a common intermediate, 963–77
Synthesis of 2-trifluoromethylcyclohexenones from 2,2,2-trifluoroethyl vinyl ketone, 1114–17
Preparation of sugars with branched chains, a methylene bridge, or C-1-phenyl substituents by the Ramirez dioxaphosphole condensation, 1262–6
Alkynyl- and dialkylnylquinoxalines. Synthesis of condensed

CONDENSATION(contd)
quinoxalines, 1384–9
Calciferol and its relatives. Part 27. A synthesis of 1α-hydroxyvitamin D_3 by way of 1α-hydroxytachysterol$_3$, 1400–4
Calciferol and its relatives. Part 28. A stereoselective synthesis of 1α-hydroxyprecalciferol$_3$ from (8-hydroxymethyl)des-AB-cholest-8-ene, 1405–6
Studies on the synthesis of heterocyclic compounds. Part 832. A simple and efficient synthesis of apomitomycin derivatives; potential intermediate for mitomycin synthesis, 1607–13
The bacterial pigment from Pseudomonas lemonnieri. Part 2. The synthesis of 3-n-octanamidopyridine-2,5,6-trione: the structure and synthesis of lemonnierin, 1788–95
The synthesis and reactions of sterically constrained pyrylium and pyridinium salts, 1895–900
Pyranoside derivatives of 3-deoxyald-2-ulosonic acids, 1971–7
Convenient syntheses of alkyl β-resorcylate derivatives, 2272–7
Purines, pyrimidines and imidazoles. Pasrt 52. New syntheses of some 1-β-D-arabinofuranosylaminoimidazoles and of related purine nucleosides, including 9-β-D-arabinofuranosyladenine, 2304–9
Purines, pyrimidines and imidazoles. Part 53. Synthesis of some 5-halo analogs of metiamide and cimetidine, 2310–15
Purines, pyrimidines, and imidazoles. Part 54. Interconversion of some intermediates in the de novo biosynthesis of purine nucleotides, 2316–21
Michael additions to α,β-unsaturated sulfoximides in two-phase systems. Kinetic resolution by means of chiral phase-transfer catalysts, 2422–4
The chemistry of fungi. Part 77. The synthesis of benzophenones from phthalides: x-ray crystallographic definition of a novel isobenzofuran system, 2445–9
Reactions of alkyllithium compounds with aryl halides, 2617–25
Synthesis of ethyl 3-bromo-2-ethoxy-2-(4-hydroxybenzoyloxy)propionate and attempts at cyclization. A correction, 2691–2
Inhibitors of pyrimidine biosynthesis. Part 1. Synthesis of potential transition-state analogs of aspartate transcarbamylase, 2721–7
Condensation of αβ-unsaturated amines with perfluoroarenes, 2845–50
New dyes based on 3-aryibenzo- and -naphtho-1,4-thiazines, 2923–32
CONFIGURATION
2,2'-Bridged biphenyls with 12-membered heterocyclic bridging rings. Part 1. Tetrabenzo[b,d,h,j][1,6]diazacyclododecines, 107–12
Photocyclization of enamides. Part 16. A new synthesis of clavines. The stereostructure of ecstaclavine, 208–11
α,β-Unsaturated carboxylic acid derivatives. Part 18. Syntheses of geometric isomers of 3,6-dibenzylidene- and 3-p-anisylidene-6-benzylidene-2,5-piperazinediones, 419–21
Absolute configuration and chiroptical properties of 8-methyl-1-decalones, 950–8
Branched-chain sugars. 9. Characterization of the stereoisomeric methyl 3-deoxy-3-C-methyl-3-nitropentopyranosides resulting from the condensation of nitroethane with L-methoxydiglycoaldehyde and the x-ray crystal structure of methyl 2,4-di-O-acetyl-3-deoxy-3-C-methyl-3-nitro-β-D-xylopyranoside, 995–1002
Total synthesis of the macrocyclic diterpene (-)-casbene, the putative biogenetic precursor of lathyrane, tigliane, ingenane, and related terpenoid structures, 1711–17
Synthesis, absolute configuration, and circular dichroism of the enantiomers of fluorosuccinic acid, 2029–32
(+)- and (-)-Benzo[a]pyrene 7,8-oxide: synthesis, absolute stereochemistry, and stereochemical correlation with other mammalian metabolites of benzo[a]pyrene, 2112–16
Asymmetric synthesis at nitrogen by oxidation of imines with m-chloroperbenzoic acid in the presence of optically active carbinols. Absolute stereochemistry of chiral alcohol-imine-peracid solvates, 2152–61
Stereochemistry of the hexosulose in cardenolide glycosides of the Asclepiadaceae, 2162–8
Structural elucidation of the nigerones, four new naphthopyrones from cultures of Aspergillus niger, 2474–9
Photobromination of carbohydrate derivatives. Part 4. Observations on some glucopyranoside esters; a simple route to aryl α-L-idopyranosides, 2762–7
Novel reagent system for converting a hydroxy-group into an iodo-group in carbohydrates with inversion of configuration. Part 2, 2866–9
CONFORMATION
Unsaturated steroids. Part 10. The mechanism of the anthrasteroid rearrangement: the conformation of anthrasteroids, 1779–81
Pyranoside derivatives of 3-deoxyald-2-ulosonic acids, 1971–7
Spirans. Part 13. The synthesis and orientation of spirans related to Abel's ketone (naphtho[2,1-b]furan-2(1H)-spiro-1'(2'H)-naphthalen-2'-one), 1986–93
Enamine chemistry. Part 27. The effect of additional α- and β-heteroatoms on the p_π-conjugation and reactivity of enamines. Sub or super enamines?, 2383–6
Synthesis and conformation in the solid state of oligopeptides with the L-alanyl-L-leucylglycyl sequence in which some glycines are replaced with N-methylglycines, 2808–11
CONIFERYL
Benzodioxanes by oxidative phenol coupling. Synthesis of silybin, 773–8
CONJUGATE
Mechanism and stereochemistry of conjugate reduction of enones from gibberellins A_3 and A_7, 877–84
The structure of bonellin and its derivatives. Unique physiologically active chlorins from the marine echurian Bonellia viridis, 1080–9
Conjugate, homoconjugate, and 1,2-additions of acetylene nucleophiles and their application to prostaglandin synthesis, 2346–52
CONJUGATED
Preparation and dienophilic reactions of nitrosyl cyanide, 1587–91
CONJUGATION
Enamine chemistry. Part 27. The effect of additional α- and β-heteroatoms on the p_π-conjugation and reactivity of enamines. Sub or super enamines?, 2383–6
CONSTRAINED
The synthesis and reactions of sterically constrained pyrylium and pyridinium salts, 1895–900
CONSTRAINT
Intramolecular alkylation of phenols. Part 4. Base-catalyzed cyclization of phenolic enones. Scope and limitations, 1555–66
CONTRACTION
Condensed isothiazoles. Part 5. Thieno[2,3-d]isothiazoles and thien[3,2-d]isothiazoles, 1029–37
Synthesis of 5,6-dihydro-4H-1,3,5-dithiazines, 2,3-dihydro-6-thioxo-6H-1,3-thiazine, and 6-amino-1,3-dithiins, 1038–44
Heterocycles in organic synthesis. Part 40. Oxidation of 2,4,6-triarylpyridinium betaines and 2,4,6-triarylpyridinium perchlorates by hydrogen peroxide, 1870–8
Preparation and hydrolysis of some 4-substituted bicyclo[3.1.0]hex-2-ene-6-carboxaldehydes: synthesis of the prostaglandin A_2 analog possessing a butyl group in place of the octenol side chain 2088–92
Polyhaloaromatic compounds. Part 44. Reactions of enamines with polyhalopyridines and their N-oxides, 2709–16
CONTROL
Spirans. Part 12. Stereochemical control in the oxidative cyclization of bisnaphthols, 1978–85
CONTROLLED
Synthetic studies in the α-kainic acid (2,3-trans,3,4-cis-2-carboxy-4-isopropenylpyrrolidin-3-ylacetic acid) series, 2542–8
CONVERSION
1,3-Dipolar character of six-membered aromatic rings. Part 48. Novel conversions of pyridines to isoquinolines, 331–42
A simple and efficient total synthesis of the sesquiterpenes cuparene and iso-α-curcumene, from furan derivatives, 759–61
Heterocycles in organic synthesis. Part 42. Preparation of azides, phthalimides, and sulfonamides from primary amines, 849–50
Heterocycles in organic synthesis. Part 36. An alternative to the Gattermann reaction for the conversion of anilines into thiocyanates, 865–8
Terpenoids. Part 8. Partial syntheses of ent-11β-, 12α-, and 12β-hydroxykaur-16-en-19-oic acids from grandiflorenic acid, 1270–8
The preparation of primary alkyl and benzyl fluorides from the corresponding primary amines, 2901–3
COOLIGOMERIZATION
Cooligomerization of butadiene and carbon dioxide catalyzed by tertiary phosphine-palladium complexes, 693–8
COPE
Base catalyzed rearrangements involving ylide intermediates. Part 4. [1,3]Sigmatropic rearrangements of 4-dimethylaminobutenes and [3,3]sigmatropic rearrangements of 3-dimethylaminohexa-1,5-dienes, 1462–72

COPE(contd)
Carbonyl transposition and regio- and stereo-specific syntheses of new alcohols, aminoalcohols, and ketones in the monoterpenoid 1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane, 2626–30
COPPER
Alkynyl- and dialkylnylquinoxalines. Synthesis of condensed quinoxalines, 1384–9
Polyhalogenoaromatic compounds. Part 43. Inter- and intra-molecular reactions of polychloroaromatic compounds with copper, 1682–7
Studies on organic fluorine compounds. Part 35. Trifluoromethylation of pyrimidine and purine nucleosides with trifluoromethyl-copper complex, 2755–62
COPROPORPHYRINOGEN
Biosynthesis of porphyrins and related macrocycles. Part 13. Structure of the protoporphyrin isomer derived from coproporphyrinogen IV by the action of beef-liver coproporphyrinogenase: synthesis of protoporphyrin XIII, 1283–9
COPROPORPHYRINOGENASE
Biosynthesis of porphyrins and related macrocycles. Part 13. Structure of the protoporphyrin isomer derived from coproporphyrinogen IV by the action of beef-liver coproporphyrinogenase: synthesis of protoporphyrin XIII, 1283–9
CORALYNE
Reaction of protoberberine-type alkaloids. Part 13. Biogenetic conversion of protoberberine alkaloids into phthalideisoquinoline alkaloids, 919–26
COREXIMINE
Alkaloid formation through N-oxide intermediates; regioselective synthesis of (±)-corytuberine by redox reaction, 629–32
CORTICOSTERONE
18-Substituted steroids. Part 5. Further studies on the synthesis of 11β,18,21-trihydroxypregn-4-ene-3,20-dione ('18-hydroxycorticosterone'), 2591–6
CORTICOTROPHIN
Synthesis of 5- and 7-bromotryptophan and of [5-bromotryptophan^9]-β-coritcotropin-(1–24)-tetracosapeptide, a highly potent corticotrophin analog, 1928–32
CORTICOTROPIN
Tritiated peptides. Part 8. Synthesis of [3,5-$^3H_2$-Tyr^2]-, [4-^{3}H-Phe^7]-, and [3,5-$^3H_2$-Tyr^{23}]-human corticotropin, 462–5
CORYNOLINE
Photocyclization of enamides. Part 15. Syntheses of the basic structures of corynoline and related alkaloids, 203–7
Photocyclization of enamides. Part 17. Total synthesis of (±)-corynoline, (±)-12-hydroxycorynoline, and (±)-11-epicorynoline, 212–16
CORYTENCINE
Studies on tetrahydroisoquinolines. Part 15. Lead tetraacetate oxidation of four hydroxytetrahydroprotoberberines, (±)-govanine, (±)-discretine, (±)-corytencine, and (±)-10-hydroxy-2,3,11-trimethoxytetrahydroprotoberberine, 1169–75
CORYTUBERINE
Alkaloid formation through N-oxide intermediates; regioselective synthesis of (±)-corytuberine by redox reaction, 629–32
COSTACLAVINE
Photocyclization of enamides. Part 16. A new synthesis of clavines. The stereostructure of costaclavine, 208–11
COTININE
Addition reactions of heterocyclic compounds. Part 70. Formation of quinolizines and indolizines from nicotine derivatives and acetylenic esters, 78–80
Transformations involving the pyrrolidine ring of nicotine, 579–85
COUMARIN
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
Steric effects in the ring expansion of coumarins by 2-diazopropane and tert-butyldiazomethane, 2937–42
COUPLING
Benzodioxanes by oxidative phenol coupling. Synthesis of silybin, 775–8
Oxidative coupling of phenols and phenolic ethers. Part 4. Synthesis of dibenz[d,f]azonines and a dibenz[d,f]azecine via direct coupling, 1104–8
Electroorganic reactions. Part 16. The preparative-scale cathodic hydrogenolysis and coupling of benzyl-, allyl-, cinnamyl-, and polyenylphosphonium salts, 1154–60
New olefin and oxirane syntheses from carbonyl compounds, and diethyl sodiophosphonate anions and 1-aminophosphonate amino-anions, 1731–8
Lanthionine chemistry. Part 5. Synthesis of cyclic nonsymmetrical lanthionyl peptides, 1965–70
Synthetic C-glycosyl nucleosides. A new approach, 2683–5
Organoiron complexes in organic synthesis. Part 7. Regio- and stereochemistry of ring connection reactions relevant to steroid and terpene synthesis. Structure of tricarbonyl(methyl 1-[2-5-η-4-methoxy-1-methylcyclohexa-2,4-dienyl]-3-hydroxymethyl-3-methyl-2-oxocyclohexanecarboxylate)iron, 2774–80
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
New dyes based on 3-arylbenzo- and -naphtho-1,4-thiazines, 2923–32
COVALENT
v-Triazolo[4,5-d]pyrimidines (8-azapurines). Part 22. Synthesis of 2-amino- and 2-oxo-derivatives of N-alkyl-1,6-dihydro-8-azapurines from the corresponding 4-amino-5-aminomethyl-1,2,3-triazoles, 2918–22
CRAFTS
Friedel–Crafts reactions of some vinylsilanes, 2485–9
CROWN
The formation of complexes between aza-derivatives of crown ethers and primary alkylammonium salts. Part 6. Bis(monoaza)crown ethers, 586–600
CRYSTAL
Hydrogenation of cyclobutanes in strained cage compounds. Synthesis of ditwistane and bisnorditwistane (ditwistbrendane), 163–9
X-ray structure determination of methoxynepetaefolin and nepetaefolinol, labdane diterpenoids from Leonotis nepetaefolia R.Br, 264–8
Branched-chain sugars. Part 8. The synthesis of C-acetylpyranosides and a pillarose derivative using 1-methoxyvinyllithium, 273–6
Cycloaddition reactions of isonitrosoflavanone esters with Schiff bases and with heteroaromatic rings, 354–61
Organoiron complexes in organic synthesis. Part 4. Direct-ring connection between highly substituted centers. A potential approach to trichothecane synthesis, 395–9
Nitrosation and nitrosylation of hemoproteins and related compounds. Part 3. Attack at the vinyl groups of protoporphyrin dimethyl ester. X-ray analysis of 8^1(E)-8^2-nitroprotoporphyrin dimethyl ester, 490–4
Lewis-acid-induced electrophilic substitution in indoles with acetone. Part 2, 553–5
Structural studies of azacyclols derived from linear tripeptides, 809–16
Branched-chain sugars. 9. Characterization of the stereoisomeric methyl 3-deoxy-3-C-methyl-3-nitropentopyranosides resulting from the condensation of nitroethane with L-methoxydiglycoaldehyde and the x-ray crystal structure of methyl 2,4-di-O-acetyl-3-deoxy-3-C-methyl-3-nitro-β-D-xylopyranoside, 995–1002
Structural investigations of 3-acylpyrrolidine-2,4-diones by nuclear magnetic resonance spectroscopy and x-ray crystallography, 1057–65
The structure of bonellin and its derivatives. Unique physiologically active chlorins from the marine echurian Bonellia viridis, 1080–9
Potential anticancer agents. Part 13. Cytotoxic constituents of Acanthospermum glabratum (Asteraceae), 1090–7
Reactions of the sodium salts of some heterocyclic β-ketoesters with dimethyl acetylenedicarboxylate, 1251–6
X-ray analysis of 6-ethoxycarbonyl-4-ethylpyrazolo[1,5-a]pyrimid-7(4H)-one and 6-ethoxycarbonyl-4-ethyl-1,2,4-triazolo[1,5-a]pyrimid-7(4H)-one, 1347–51
The preparation of derivatives containing the imidazo[2,1-b]thiazine and 1,2,4-triazolo[3,2-b][1,3]thiazine systems, 1352–5
Peptidic cyclols. Synthesis, crystal and molecular structure of a tricyclic thiacyclol, 1499–506
Crystal and molecular structure of amarorine monohydrate, a new phenolic alkaloid from Amaroria soulameoides, 1614–17
The bacterial pigment from Pseudomonas lemonnieri. Part 1. Structure of a degradation product, 3-n-octanamidopyridine-2,5,6-trione, by x-ray crystallography, 1782–7
Heterocycles in organic synthesis. Part 40. Oxidation of 2,4,6-triarylpyridinium betaines and 2,4,6-triarylpyridinium perchlorates by hydrogen peroxide, 1870–8
Branched-chain sugars. Part 11. An approach to the synthesis of D-evernitrose via the addition of iodine azide to a C-methylene sugar, 2061–4
(+)- and (−)-Benzo[a]pyrene 7,8-oxide: synthesis, absolute

CRYSTAL(contd)
stereochemistry, and stereochemical correlation with other mammalian metabolites of benzo[a]pyrene, 2112–16
A study of the reaction between the dichloromethylphosphine–aluminum chloride complex and terpenes. Part 2. Reaction of the dichloromethylphosphine–aluminum chloride complex and camphene, and an x-ray crystallographic study of the products, 2136–40
Novel α-methyldeoxybenzoins from the heartwood of Pterocarpus angolensis D.C.: absolute configuration and conformation of the first sesquiterpenylangolensins, and x-ray crystal structure of 4-O-α-cadinylangolensin, 2179–83
Crystal structure and absolute configuration of a new sesquiterpenoid metabolite of Fomes annosus, 7α,8β,11-trihydroxydrimane, 2196–9
Base-catalyzed reactions of α-bromo-N-benzylpropionamide and -isobutyramide. Formation of 2-aminooxazolidinones, 2249–53
The chemistry of fungi. Part 77. The synthesis of benzophenones from phthalides: x-ray crystallographic definition of a novel isobenzofuran system, 2445–9
Synthetic studies on terpenoids. Part 24. Stereocontrolled synthesis of 3aβ-H,3bα-H,5aα-H,9aα-H,11aβ-H-9bβ-methylperhydrophenanthro[2,1-b]furan-7-one, an intermediate to epoxynorcafestanone, 2511–15
Synthesis and reactions of 1,6-diaryl-2,5-bis(diazo)-1,3,4,6-tetraoxohexanes, 26[illegible]
Organoiron complexes in organic synthesis. Part 7. Regio- and stereochemistry of ring connection reactions relevant to steroid and terpene synthesis. Structure of tricarbonyl(methyl 1-[2-5-η-4-methoxy-1-methylcyclohexa-2,4-dienyl]-3-hydroxymethyl-3-methyl-2-oxocyclohexanecarboxylate)iron, 2774–80
Structure of aristone, a unique indole alkaloid from Aristotelia chilensis (Mol.) Stuntz, by x-ray crystallographic analysis, 2842–4
CUNNINGHAMELLA
Microbiological transformations. Part 3. The oxidation of androstene derivatives with the fungus Cunninghamella elegans, 2535–41
CUPARENE
A simple and efficient total synthesis of the sesquiterpenes cuparene and iso-α-curcumene, from furan derivatives, 759–61
CURING
Nitrosation and nitrosylation of hemoproteins and related compounds. Part 4. Pentacoordinate nitrosylprotoheme as the pigment of cooked cured meat. Direct evidence from ESR spectroscopy, 1706–10
CYANATION
Mesoionic compounds. Part 10. A study of the reactions of 3-(3-pyridyl)sydnone with some nucleophilic reagents, 20–6
Cyanation using the combined reagent, triphenylphosphine–thiocyanogen (TPPT): a new general route to indole and pyrrole carbonitriles, 1132–5
CYANIDE
The reaction between cyanide ion and nitrones; a new imidazole synthesis, 244–8
Preparation and dienophilic reactions of nitrosyl cyanide, 1587–91
CYANINE
New dyes based on 3-arylbenzo- and -naphtho-1,4-thiazines, 2923–32
CYANO
Cyano sugars. Part 4. Hypochlorite oxidation of branched-chain nitro sugars and conversion of the products into branched-chain cyano sugars, 126–8
A novel reduction of activated olefins by lithium amides, 1267–9
CYANOACRYLATE
Synthesis of 5,6-dihydro-4H-1,3,5-dithiazines, 2,3-dihydro-6-thioxo-6H-1,3-thiazine, and 6-amino-1,3-dithiins, 1038–44
CYANOBENZYLIDENEALKYLAMINE
The reaction between cyanide ion and nitrones; a new imidazole synthesis, 244–8
CYANOBOROHYDRIDE
Studies on the preparation of N-alkyl-O-phenylhydroxylamines, 2781–6
CYANOCOUMARIN
Steric effects in the ring expansion of coumarins by 2-diazopropane and tert-butyldiazomethane, 2937–42
CYANOCYCLOBUTANAPHTHALENE
Redox-photosensitized reactions. Part 6. Stereospecific ring cleavage of 1-phenoxy-1,2,2a,3,4,8b-hexahydrocyclobuta[a]naphthalene-8b-carbonitrile and its 2-methyl derivatives by redox-photosensitization, 2705–8
CYANOGEN
v-Triazolo[4,5-d]pyrimidines (8-azapurines). Part 22. Synthesis of 2-amino- and 2-oxo-derivatives of N-alkyl-1,6-dihydro-8-azapurines from the corresponding 4-amino-5-aminomethyl-1,2,3-triazoles, 2918–22
CYCLAZINE
Heterocyclic compounds with bridgehead nitrogen atoms. Part 7. The synthesis of pyrrolo[2,1,5-cd]indolizines ([2,2,3]cyclazines) and pyrazino[2,1,6-cd]cyclazines) (6-aza[2,2,3]cyclazines) from 3H-pyrrolizine, 1319–23
CYCLIC
Reaction between 1,1-dilithioalkyl phenyl sulfones and ω-bromo esters. Synthesis of cyclic vinyl ethers, 260–3
Benzocyclobutenes. Part 4. Synthesis of benzocyclobutene-1,2-diones by pyrolytic methods, 1834–40
o-Quinonoid compounds. Part 17. Evidence for exo-selectivity in the 1,5-sigmatropy of acyl and vinyl groups, 1909–15
Chain-extension reactions of acetylenes. Part 4. Reaction of 1,3-dilithioacetylides with carbonyl electrophiles, hexamethylphosphoric triamide, and benzylideneaniline, 2338–45
CYCLITOL
Branched-chain sugars. Part 15. Synthesis of 1L-(1,2,3',4,5/3,6)-3-hydroxymethyl-4,5-O-isopropylidene-3,3'-O-methylene-6-nitro-2,3,4,5-tetrahydroxycyclohexenecarbaldehyde dimethyl acetal, a potential key compound for total synthesis of optically active tetrodotoxin, 14–19
CYCLIZATION
Studies related to penicillins and cephalosporins. Part 5. A new relay synthesis of penicillin, 11–13
Branched-chain sugars. Part 15. Synthesis of 1L-(1,2,3',4,5/3,6)-3-hydroxymethyl-4,5-O-isopropylidene-3,3'-O-methylene-6-nitro-2,3,4,5-tetrahydroxycyclohexenecarbaldehyde dimethyl acetal, a potential key compound for total synthesis of optically active tetrodotoxin, 14–19
Photochemical cyclization of phthalimide Mannich bases, 93–6
New aspects in the base-promoted cyclization of o-vinylbenzohydrazonyl chlorides, 116–18
The chemistry of 4-mercaptoazetidin-2-ones. Part 2. Synthesis of bisnorpenicillins, 150–5
Synthesis of tert-butyl 2-(2-methoxycarbonyl-1-methylethylidene-)penam-3-carboxylates; clavulanic acid analogs, 187–90
Photocyclization of enamides. Part 14. Substituent effects in the photocyclization of N-α,β-unsaturated acylanilides, 197–202
Photocyclization of enamides. Part 16. A new synthesis of clavines. The stereostructure of costaclavine, 208–11
Photocyclization of enamides. Part 17. Total synthesis of (±)-corynoline, (±)-12-hydroxycorynoline, and (±)-11-epicorynoline, 212–16
Nitrogen bridgehead compounds. Part 6. Ring transformation. Part 3. Thermal cyclization of diethyl 2-(2-pyridylaminomethylene)succinates and -glutarates, 227–32
β-Lactam antibiotics. Part 2. New methods of cyclizing hydrazinothioazetidinones to cephem ring systems, 233–6
Organoiron complexes in organic synthesis. Part 5. Spirocyclization reactions of tricarbonylcyclohexadienyliumiron complexes, 400–5
Syntheses and properties of methyl-substituted benzannelated tetradehydro[13]annulenones, 466–72
Synthesis and properties of a trimethyltetradehydro[17]annulenone and its benzannelated derivatives, 473–80
Photochemical electrocyclization of 1,4,6-trisubstituted pyrimidin-2-ones to 2-oxo-1,3-diazabicyclo[2.2.0]hex-5-enes, 607–10
Alkaloid formation through N-oxide intermediates; regioselective synthesis of (±)-corytuberine by redox reaction, 629–32
A new synthetic approach towards adriamycin, 643–7
Electrochemical reactions. Part 23. Intramolecular radical substitution during the reduction of 2-halo-N-methyl-N-naphthylbenzamides, 657–60
Benzodioxanes by oxidative phenol coupling. Synthesis of silybin, 775–8
Electrocyclic reactions of protonated chalcones: synthesis of 3-arylindan-1-ones, 837–42
Reaction of protoberberine-type alkaloids. Part 13. Biogenetic conversion of protoberberine alkaloids into phthalideisoquinoline alkaloids, 919–26
A novel synthesis of pyrimido[4,5-b]quinoline-2(3H),4(10H)-diones (5-deazaflavins) and analogs by the oxidative cyclization of 5,5'-arylmethylenebis(6-alkylamino-3-methyluracils), 978–81

CYCLIZATION(contd)
Competitive cyclizations of singlet and triplet nitrenes. Part 8. The 1-(2-nitrenophenyl)pyrazoles and related systems, 982–94
Condensed isothiazoles. Part 5. Thieno[2,3-d]isothiazoles and thien[3,2-d]isothiazoles, 1029–37
Lythraceous alkaloids. Part 11. Total synthesis of (±)-lythranidine 1066–9
Sultone formation from 2,4,6-triisopropylbenzenesulfinic acid, 1076–9
Bicyclic heterocycles with nitrogen at the ring junction. Part 2. Application of the Dakin–West reaction to the synthesis of imidazo[5,1-f]-1,2,4-triazin-4(3H)-ones, 1139–46
The synthesis of thiophenium and of oxazolium salts from diazoketones, 1185–93
The reactions of 2-alkynylbenzaldehydes with hydrazides: a route to isoquinoline N-imines, 1331–4
Base catalyzed rearrangements involving ylide intermediates. Part 5. Thermal rearrangements of 3-dimethylaminohex-5-en-1-ynes, 1473–6
Photochemistry of substituted cyclic enones. Part 2. 5-[Prop-2-enyl]cyclopentenones, 1516–22
Intramolecular alkylation of phenols. Part 4. Base-catalyzed cyclization of phenolic enones. Scope and limitations, 1555–66
Intramolecular alkylation of phenols. Part 5. A regiospecific anionic ring closure of phenols via quinone methides, 1567–77
Studies on the synthesis of heterocyclic compounds. Part 832. A simple and efficient synthesis of apomitomycin derivatives; potential intermediate for mitomycin synthesis, 1607–13
Light-induced reactions of 2-(N-alkyl-N-aryiamino)acetophenones and related amino ketones: formation of 1,3-diarylazetidin-3-ols, 1671–8
Intramolecular photocycloaddition reactions of phenyl-vinyl bichromophoric systems, 1761–8
Heterocycles in organic synthesis. Part 34. The photocyclization of 1,2-diarylpyridinium cations and the photobiscyclization of 1,2,6-triarylpyridinium cations, 1879–87
Acid-catalyzed decomposition of β,γ-unsaturated diazo-ketones: preparation of 4,4-dimethyl-D-norsteroidal systems from pimaradiene and sandaracopimaradiene precursors, 1924–7
Spirans. Part 12. Stereochemical control in the oxidative cyclization of binaphthols, 1978–85
Spirans. Part 13. The synthesis and orientation of spirans related to Abel's ketone (naphtho[2,1-b]furan-2(1H)-spiro-1'(2'H)-naphthalen-2'-one), 1986–93
Electrochemical oxidation of aromatic ethers. Part 6. Oxidation of 4-(3,4-dimethoxybenzyi)-6,7-dimethoxy-2-methyl-1,2,3,4-tetrahydroisoquinoline and attempted synthesis of 4-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-methyl-1,4-dihydro-3(2H)-isoquinolone, 2013–20
Formation of allyl and cyclopropylcarbinyl sulfides in the regiospecific reactions of arenesulfenyl chlorides with allyl- and but-3-enylcobaloximes, 2021–5
Branched-chain sugars. Part 11. An approach to the synthesis of D-evernitrose via the addition of iodine azide to a C-methylene sugar, 2061–4
Formation of 2,3-dihydro-4(1H)-quinolones and related compounds via Fries-type acid-catalyzed rearrangement of 1-arylazetidin-2-ones, 2105–11
Synthesis of N-hydroxymaleimide and N-hydroxyitaconimide and their related derivatives, 2122–5
Bridged-ring nitrogen compounds. Part 3. Synthesis of representatives of the 1,5-methano-4-benzazonine ring system, 2141–5
Nucleophilic displacement and spiro-complex formation in NN'-dimethyl-N-picrylethylenediamine, 2205–8
Total synthesis of β-lactamase inhibitors based on the 4-oxa-1-azabicyclo[3.2.0]heptan-7-one ring system, 2222–7
Studies related to penicillins and cephalosporins. Part 6. Synthesis of the (±)-dinorpenicillin-spirocyclopentane system, 2228–32
Quinoline alkaloids. Part 20. Synthesis of ptelefolone and O-methylribaline. Ring closure of epoxides of 3-prenylquinolones, 2294–9
Competitive cyclizations of singlet and triplet nitrenes. Part 9. 2-(2-Nitrenophenyl)benzothiazoles and -benzimidazoles, 2387–91
Oxymetalation. Part 12. Further syntheses of monocyclic peroxides via peroxymercuriation, 2450–7
Synthetic studies in the α-kainic acid (2,3-trans,3,4-cis-2-carboxy-4-isopropenylpyrrolidin-3-ylacetic acid) series, 2542–8
Addition of thallium triacetate to $PGF_{2\alpha}$ methyl ester and related compounds in acetic acid. Nuclear magnetic resonance spectral study of novel dioxatricyclic and oxabicyclic products, 2572–80
Some reactions of vinylene diisothiocyanate, 2717–20
v-Triazolo[4,5-d]pyrimidines (8-azapurines). Part 22. Synthesis of 2-amino- and 2-oxo-derivatives of N-alkyl-1,6-dihydro-8-azapurines from the corresponding 4-amino-5-aminomethyl-1,2,3-triazoles, 2918–22
CYCLO
The participation of 3,5-cyclosteroids in aromatization reactions, 1306–10
Heterocyclic polyfluoro compounds. Part 33. Competing 1,2- and 1,4-photochemical addition of hexafluorobiacetyl to 1,2-difluoroethylene, 2523–6
CYCLOADDN
The photoaddition of ethylenic hydrocarbons to benzene, 55–71
Addition reactions of heterocyclic compounds. Part 70. Formation of quinolizines and indolizines from nicotine derivatives and acetylenic esters, 78–80
Heterocyclic polyfluoro compounds. Part 29. 2:1 Adducts by photochemical addition of cycloalkenes to pentafluoropyridine, 129–31
Cyclopropane chemistry. Part 4. The reactions of 1,2,2-trifluoroethylidene with alkenes and pyrolysis of the resulting cyclopropanes, 314–24
1,3-Dipolar character of six-membered aromatic rings. Part 48. Novel conversions of pyridines to isoquinolines, 331–42
1,3-Dipolar character of six-membered aromatic rings. Part 49. 3-Oxido-1-(4-pyridyl)pyridinium, 3-oxido-1-(2-pyridyl)pyridinium, 3-oxido-1-(quinoxolin-2-yl)pyridinium, 3-oxido-1-(5,6-diphenyl-1,2,4-triazin-3-yl)pyridinium, and 3-oxido-1-(5-phenyl-1,2,4-triazin-3-yl)pyridinium, 343–53
Cycloaddition reactions of isonitrosoflavanone esters with Schiff bases and with heteroaromatic rings, 354–61
1,3-Dipolar character of six-membered aromatic rings. Part 51. Cycloadditions of 1-(β-benzoylvinyl)-3-oxidopyridiniums and subsequent transformations, 362–71
A general and practicable synthesis of polycyclic heteroaromatic compounds. Part 1. Use of a putative quinolone-quinone-methide in the synthesis of polycyclic heteroaromatic compounds 512–21
A general and practicable synthesis of polycyclic heteroaromatic compounds. Part 2. Reaction of quinone-methides of pyridones, pyrimidines, coumarin, and benzene with aromatic amines in a novel synthesis of polycyclic heteroaromatic compounds, 522–8
Heterocyclic compounds. Part 6. Synthesis of 1,3,4-thiadiazolidines from the reactions of phenyl hydrazones with phenyl isothiocyanate and carbon disulfide, 574–8
[6+3] Cycloadditions of 1,1- and 1,3-diphenyl-2-azaallyllithium to cycloheptatriene, 672–4
Reaction of 1,3-dipoles with 3-pyrrolidino-2-benzopyran-1-one, 846–8
The photo-cycloaddition of enol ethers to benzene, 869–76
Reaction of monothio derivatives of 2-heteroarylideneindene-1,3(2H)-diones with quinones, 1070–5
The photocycloaddition of vinyl acetate to benzene and its simple derivatives: functionalization of the dihydrosemibullvalene skeleton, 1118–23
Reaction of benzo[c]cinnolinium-5-(N-acyl- and N-benzimidoimides) with diphenylcyclopropenone, 1147–9
1,3-Dipolar character of six-membered aromatic rings. Part 52. 2π + 8π cycloaddition reactions of 1-substituted 3-oxidopyridinium betaines, 1176–84
Photochemical reactions of benzene derivatives with electron-donor ethylenes, 1218–24
The photochemical reaction of benzene with ethylenes: studies with allyl compounds, enamines, vinyl sulfide, and 5,6-dichlorobicyclo[2.2.1]hept-2-ene, 1225–9
A general and practicable synthesis of polycyclic heteroaromatic compounds. Part 3. Extension of the synthesis to 'quinone methides' of naphthalene, phenanthrene, and benzene, 1233–9
On the mechanism of the meta photocycloaddition of ethylenes to benzenoid compounds, 1314–18
Heterocyclic compounds with bridgehead nitrogen atoms. Part 7. The synthesis of pyrrolo[2,1,5-cd]indolizines ([2,2,3]cyclazines) and pyrazino[2,1,6-cd]cyclazines) (6-aza[2,2,3]cyclazines) from 3H-pyrrolizine, 1319–23
Heterocyclic compounds with bridgehead nitrogen atoms. Part 8. The synthesis and properties of cyclopenta[4,5]azepino[7,1,2-cd]pyrrolizine (cyclopenta[h][2.2.4]cyclazine), 1324–30
Preparation and dienophilic reactions of nitrosyl cyanide, 1587–91

CYCLOADDN(contd)
Pyrazines. Part 5. Preparation of 3,8-diazabicyclo[3.2.1]octane-2,4-dione derivatives, 1603–6
The reaction of para-substituted β-aminocinnamonitriles with benzonitrile oxides, 1635–40
Unsaturated steroids. Part 10. The mechanism of the anthrasteroid rearrangement: the conformation of anthrasteroids, 1779–81
New steroidal heterocycles: androstano[3,2-b](pyrimido[1,2-a]benzimidazoles), 1859–61
Adducts from quinones and diazoalkanes. Part 9. The adduct from 2-methyl-1,4-naphthoquinone and diazoethane and the derived secondary carbanion: regioisomerism in carbanion–quinone additions, 1994–2000
Reactions between 3-nitrochromone and diazo alkanes; Michael additions catalyzed by diazo alkanes as nitrogen bases, 2049–53
The photochemical cycloaddition of furan and benzene, 2174–8
Base-catalyzed reactions of α-bromo-N-benzylpropionamide and -isobutyramide. Formation of 2-aminooxazolidinones, 2249–53
Synthesis and reactions of 5-arylamino-1,2,4-trioxanes, 2300–3
The reaction of nitrosocarbonyl compounds with 2,5-disubstituted furans. Synthesis of 1,4,2-dioxazine and 1,4,2-dioxazole derivatives, 2408–16
The photochemical reactions of benzene with 1,2-, 1,3-, and 1,4-dienes, 2425–34
The chemistry of o-phenylene diisothiocyanate. Part 2. Reactions with enamines, an ynamine and some reactive methylene compounds, 2587–90
The chemistry of o-phenylenediisothiocyanate. Part 3. Studies on the syntheses of heterocyclic compounds, 2608–11
CYCLOALANYLDIMETHYLALLYLTRYPTOPHAN
Biosynthesis of aromatic isoprenoids. Part 5. The preparation of 1-(3,3-dimethylallyl)-L-tryptophan and cyclo-L-alanyl-1-(3,3-dimethyl-allyl)-L-tryptophan and their nonincorporation into echinulin, 1294–8
CYCLOALKADIENE
Studies related to anthracyclines. Part 1. Some Diels–Alder reactions of 4a,9a-epoxy-4a,9a-dihydroanthracene-1,4,9,10-tetrone, 1007–12
The photochemical reactions of benzene with 1,2-, 1,3-, and 1,4-dienes, 2425–34
CYCLOALKANONE
Ring-expansion of carbocyclic β-ketoesters with acetylenic esters, 1245–50
CYCLOALKENE
Heterocyclic polyfluoro compounds. Part 29. 2:1 Adducts by photochemical addition of cycloalkenes to pentafluoropyridine, 129–31
Reactions involving fluoride ion. Part 18. Derivatives of perfluoro cycloalkenes, 429–34
Reactions involving fluoride ion. Part 19. Observable perfluorocycloalkyl anions, 435–9
Polyfluoroalkyl derivatives of nitrogen. Part 49. Ene reactions of trifluoronitrosomethane: formation of N-trifluoromethylhydroxylamines, 1960–4
Heterocyclic polyfluoro compounds. Part 32. Photochemical reactions of 3-chlorotetrafluoro- and 3,5-dichlorotrifluoropyridines with olefins, and their photoreduction, 2520–2
CYCLOALKYL
The conversion of aldehydes and ketones via their 2,4,6-triisopropylbenzenesulfonyl hydrazones into nitriles containing one additional carbon atom, 1487–92
The preparation of primary alkyl and benzyl fluorides from the corresponding primary amines, 2901–3
CYCLOBUTANAPHTHALENEDIONE
Benzocyclobutenes. Part 4. Synthesis of benzocyclobutene-1,2-diones by pyrolytic methods, 1834–40
CYCLOBUTANAPHTHALENENITRILE
Redox-photosensitized reactions. Part 6. Stereospecific ring cleavage of 1-phenoxy-1,2,2a,3,4,8b-hexahydrocyclobuta[a]naphthalene-8b-carbonitrile and its 2-methyl derivatives by redox-photosensitization, 2705–8
CYCLOBUTANE
Partially fluorinated heterocyclic compounds. Part 12. Novel internal Diels–Alder adducts via Claisen rearrangement intermediates from tetrafluoro-4- and -3-pyridyl prop-2-enyl ethers. Syntheses of tetrafluoro-3-aza- and -4-aza-tricyclo[3.3.-1.0^{2,7}]non-3-en-6-one, 102–6
CYCLOBUTANONE
Synthetic studies towards complex diterpenoids. Part 13. Stereospecific synthesis of intermediates to the diterpene alkaloids and the C_{20}-gibberellins by a novel rearrangement of angularly fused cyclobutanones, 2881–6
CYCLOBUTAPYRIDINEDIONE
Benzocyclobutenes. Part 4. Synthesis of benzocyclobutene-1,2-diones by pyrolytic methods, 1834–40
CYCLOBUTENE
Fluoro olefin chemistry. Part 12. Some reactions of 3,4-dihalotetrafluorocyclobutenes: a synthesis of perfluorocyclooctatetraene, 122–5
Reactions involving fluoride ion. Part 17. Oligomers of perfluorocyclobutene, 426–8
CYCLOCHOLESTANONE
Photo-induced transformations. Part 50. The photo-Beckmann rearrangement of 3α,5-cyclo-5α-cholestan-7-one oxime, a βγ-cyclopropyl ketone oxime, 2268–71
CYCLOCONDENSATION
2,2'-Bridged biphenyls with 12-membered heterocyclic bridging rings. Part 1. Tetrabenzo[b,d,h,j][1,6]diazacyclododecines, 107–12
The chemistry of 4-mercaptoazetidin-2-ones. Part 2. Synthesis of bisnorpenicillins, 150–5
Reaction between 1,1-dilithioalkyl phenyl sulfones and ω-bromo esters. Synthesis of cyclic vinyl ethers, 260–3
Ketenimines as intermediates to heterocycles. Part 2. 2-Phenylimino-3,4,5-triphenyl-1,3-oxazoline, 385–7
New steroidal heterocycles: the synthesis and structure of androsteno[2,3-g]-, androstano[3,2-f]-, and androsteno[16,17-g]pyrazolo[1,5-a]pyrimidines, 481–6
Synthesis of [1,3,5]thiadiazino[3,2-a]benzimidazole-2,4(3H)-diones and their sulfur analogs, 762–5
Structural studies of azacyclols derived from linear tripeptides, 809–16
Branched-chain sugars. 9. Characterization of the stereoisomeric methyl 3-deoxy-3-C-methyl-3-nitropentopyranosides resulting from the condensation of nitroethane with L-methoxydiglycoaldehyde and the x-ray crystal structure of methyl 2,4-di-O-acetyl-3-deoxy-3-C-methyl-3-nitro-β-D-xylopyranoside, 995–1002
New steroidal heterocycles: synthesis and structure of androst-2-eno[2,3-g](tetrazolo[1,5-a]pyrimidines), androst-4-eno[3,2-f](tetrazolo[1,5-a]pyrimidine), and androstano[17,16-f](tetrazolo[1,5-a]pyrimidines), 1019–24
Condensed isothiazoles. Part 5. Thieno[2,3-d]isothiazoles and thien[3,2-d]isothiazoles, 1029–37
Synthesis of 5,6-dihydro-4H-1,3,5-dithiazines, 2,3-dihydro-6-thioxo-6H-1,3-thiazine, and 6-amino-1,3-dithiins, 1038–44
Bicyclic heterocycles with nitrogen at the ring junction. Part 2. Application of the Dakin–West reaction to the synthesis of imidazo[5,1-f]-1,2,4-triazin-4(3H)-ones, 1139–46
Isomerization of 2-aryl-4-oxo-2,3-dihydrobenzopyrano[2,3-d]pyrimidines to 2-aryl-4-hydroxy-5H-benzopyrano[2,3-d]pyrimidines, 1335–7
The preparation of derivatives containing the imidazo[2,1-b]thiazine and 1,2,4-triazolo[3,2-b][1,3]thiazine systems, 1352–5
Alkynyl- and dialkylnylquinoxalines. Synthesis of condensed quinoxalines, 1384–9
Restricted rotation about the carbon–nitrogen single bond of 1-aryl-4,6-dimethylpyrimidin-2(1H)-ones and the corresponding thiones, 1599–602
New heterospiro-ring systems by condensation of some heterocyclic o-dicarboxylates with 1,3-diphenylguanidine, 1667–70
Derivatives of 3H-1,2,3-triazolo[4,5-d][1,3]thiazine, a new heterocyclic nucleus. Some shifts of a methylene group from a nitrogen to a sulfur atom, 2009–12
Steroidal heterocycles: synthesis and structure of imidazo[2,1-b]thiazolo-, thiazolo[3,2-a]benzimidazolo-, and thiazolo[3,2-b]-s-triazolo-derivatives, 2146–51
Quinoline alkaloids. Part 20. Synthesis of ptelefolone and O-methylribaline. Ring closure of epoxides of 3-prenylquinolones, 2294–9
Pyrazolopyridines. Part 5. Preparation and reactions of pyrazolo[3,-4-c]pyridines, 2398–404
The chemistry of fungi. Part 77. The synthesis of benzophenones from phthalides: x-ray crystallographic definition of a novel isobenzofuran system, 2445–9
Synthesis and reactions of 1,6-diaryl-2,5-bis(diazo)-1,3,4,6-tetraoxohexanes, 2670–7
Purines, pyrimidines, and imidazoles. Part 56. Some aminoimidazolecarboxamidines and derived adenines, 2728–31

CYCLOCONDENSATION(contd)
Syntheses and reactions of spirocyclopropaneanthrones. Part 2. Rearrangements and cyclopropyl ring opening reactions of phenyl-substituted spirocyclopropaneanthrones and related compounds, 2835–41
v-Triazolo[4,5-d]pyrimidines (8-azapurines). Part 22. Synthesis of 2-amino- and 2-oxo-derivatives of N-alkyl-1,6-dihydro-8-azapurines from the corresponding 4-amino-5-aminomethyl-1,2,3-triazoles, 2918–22
New dyes based on 3-arylbenzo- and -naphtho-1,4-thiazines, 2923–32
CYCLODEPSI
Cyclodepsipeptides from Beauveria bassiana. Part 3. The isolation of beauverolides Ba, Ca, Ja, and Ka, 2878–80
CYCLODEPSIPEPTIDE
Cyclodepsipeptides from Beauveria bassiana. Part 2. Beauverolides A to F and their relationship to isarolide, 1795–9
Cyclodepsipeptides from Beauveria bassiana. Part 3. The isolation of beauverolides Ba, Ca, Ja, and Ka, 2878–80
CYCLODIMERIZATION
Oxidation of enamine esters with lead tetraacetate. Part 1. Products from some N-alkylaminofumarates, 156–62
The reaction between cyanide ion and nitrones; a new imidazole synthesis, 244–8
CYCLODIMETHYLALLYLTRYPTOPHAN
Biosynthesis of aromatic isoprenoids. Part 5. The preparation of 1-(3,3-dimethylallyl)-L-tryptophan and cyclo-L-alanyl-1-(3,3-dimethyl-allyl)-L-tryptophan and their nonincorporation into echinulin, 1294–8
CYCLODIPEPTIDE
Structure and synthesis of phomamide, a new piperazine-2,5-dione related to the sirodesmins, isolated from the culture medium of Phoma lingam Tode, 113–15
CYCLOHEPTAFURANONE
Synthesis and properties of 5-bromocyclohepta[b]furan-4-one, 2081–3
CYCLOHEPTATRIENE
[6+3] Cycloadditions of 1,1- and 1,3-diphenyl-2-azaallyllithium to cycloheptatriene, 672–4
CYCLOHEXADIENE
Excited state substitution and addition reactions of aryl fluorides with aliphatic amines, 1393–9
Polyfluoroalkyl derivatives of nitrogen. Part 48. The addition of N-haloamines $(CF_3)_2NX$ to cyclohexa-1,3- and -1,4-dienes; a new synthesis of NN-bis(trifluoromethyl)aniline, 1544–50
CYCLOHEXADIENONE
Cyclization of polyenes. Part 32. Selective bromination of polyenes by 2,4,4,6-tetrabromocyclohexa-2,5-dienone, 1051–6
Reactions of 4-bromo-4-(1-hydroxypropyl)-2,6-di-tert-butylcyclohexa-2,5-dienone in methanolic sulfuric acid, 1595–8
CYCLOHEXADIENYLIUM
Organoiron complexes in organic synthesis. Part 4. Direct-ring connection between highly substituted centers. A potential approach to trichothecane synthesis, 395–9
CYCLOHEXADIENYLIUMHEXANOATE
Organoiron complexes in organic synthesis. Part 5. Spirocyclization reactions of tricarbonylcyclohexadienyliumiron complexes, 400–5
CYCLOHEXADIENYLIUMIRON
Organoiron complexes in organic synthesis. Part 4. Direct-ring connection between highly substituted centers. A potential approach to trichothecane synthesis, 395–9
Organoiron complexes in organic synthesis. Part 7. Regio- and stereochemistry of ring connection reactions relevant to steroid and terpene synthesis. Structure of tricarbonyl(methyl 1-[2-5-η-4-methoxy-1-methylcyclohexa-2,4-dienyl]-3-hydroxymethyl-3-methyl-2-oxocyclohexanecarboxylate)iron, 2774–80
CYCLOHEXANECARBONITRILE
Fluorinations with complex metal fluorides. Part 5. Fluorination of nitriles over cesium tetrafluorocobaltate(III), 1507–11
CYCLOHEXANECARBOXYLATE
Organoiron complexes in organic synthesis. Part 7. Regio- and stereochemistry of ring connection reactions relevant to steroid and terpene synthesis. Structure of tricarbonyl(methyl 1-[2-5-η-4-methoxy-1-methylcyclohexa-2,4-dienyl]-3-hydroxymethyl-3-methyl-2-oxocyclohexanecarboxylate)iron, 2774–80
CYCLOHEXANEDIONE
A new route to 5-substituted resorcinols and related systems, 170–5
CYCLOHEXANONE
Reactions of conjugated arylazocycloalkenes with Grignard reagents. Part 3. A convenient synthesis of 2,6-diaryl- and 2-alkyl-6-arylcyclohexanones, 240–3
Synthetic approach to (±)-vincamine via cleavage of an α-diketone monothioacetal. Alternative synthesis of (±)-eburnamine, (±)-isoeburnamine, and (±)-eburnamenine, 457–61
Removal of thioacetal protecting groups by benzeneseleninic anhydride, 1654–7
CYCLOHEXENE
Heterocyclic polyfluoro compounds. Part 29. 2:1 Adducts by photochemical addition of cycloalkenes to pentafluoropyridine, 129–31
Formylation and acylation reactions catalyzed by trifluoromethanesulfonic acid, 181–6
Polyfluoroalkyl derivatives of nitrogen. Part 44. The reactions of N-bromobis(trifluoromethyl)amine with open-chain 1,3-dienes and cyclohexene under ionic conditions, 372–7
Unusual regio- and stereochemistry in the reaction of methyl (E)- and (Z)-β-styryl sulfone with pyrrolidin-1-yl-4-tert-butylcyclohexene, 686–9
Homolytic reaction of N-halosulfoximides with olefins and toluene 1257–61
Calciferol and its relatives. Part 27. A synthesis of 1α-hydroxyvitamin D_3 by way of 1α-hydroxytachysterol$_3$, 1400–4
Calciferol and its relatives. Part 28. A stereoselective synthesis of 1α-hydroxyprecalciferol$_3$ from (8-hydroxymethyl)des-AB-cholest-8-ene, 1405–6
Polyhaloaromatic compounds. Part 44. Reactions of enamines with polyhalopyridines and their N-oxides, 2709–16
CYCLOHEXENYLSILANE
Friedel–Crafts reactions of some vinylsilanes, 2485–9
CYCLOHEXYLACETALDEHYDE
Selective hydrogenation of 4,5-dihydro-1,3-oxazin-6-ones to carboxaldehyde derivatives; chemical differentiation between acylazetidin-2-ones and the corresponding isomeric oxazin-6-ones, 378–80
CYCLOHEXYLAMINE
Some reactions of vinylene diisothiocyanate, 2717–20
CYCLOHEXYLIMIDAZOLE
Purines, pyrimidines, and imidazoles. Part 56. Some aminoimidazolecarboxamidines and derived adenines, 2728–31
CYCLOOCTATETRAENE
Fluoro olefin chemistry. Part 12. Some reactions of 3,4-dihalotetrafluorocyclobutenes: a synthesis of perfluorocyclooctatetraene, 122–5
CYCLOOCTATRIENONE
The photo-cycloaddition of enol ethers to benzene, 869–76
CYCLOOCTENE
Heterocyclic polyfluoro compounds. Part 29. 2:1 Adducts by photochemical addition of cycloalkenes to pentafluoropyridine, 129–31
On the mechanism of the meta photocycloaddition of ethylenes to benzenoid compounds, 1314–18
CYCLOPENTACYCLAZINE
Heterocyclic compounds with bridgehead nitrogen atoms. Part 8. The synthesis and properties of cyclopenta[4,5]azepino[7,1,2-cd]pyrrolizine (cyclopenta[h][2.2.4]cyclazine), 1324–30
CYCLOPENTACYCLOBUTAPYRROLE
Addition reactions of heterocyclic compounds. Part 71. The formation of 1,3a,3b,4,6a,6b-hexahydrocyclopenta[3,4]cyclobuta[1,2-b]pyrroles from dimethyl acetylenedicarboxylate and 1-aryl-1,4-dihydropyridines, 81–4
CYCLOPENTADIENE
Heterocyclic compounds with bridgehead nitrogen atoms. Part 8. The synthesis and properties of cyclopenta[4,5]azepino[7,1,2-cd]pyrrolizine (cyclopenta[h][2.2.4]cyclazine), 1324–30
Stereochemistry of Diels–Alder reactions of allenic sulfones; transfer of asymmetry from allenic to norbornene systems, 1646–9
CYCLOPENTANECARBOXYLATE
Organoiron complexes in organic synthesis. Part 4. Direct-ring connection between highly substituted centers. A potential approach to trichothecane synthesis, 395–9
CYCLOPENTANONE
Synthetic studies towards complex diterpenoids. Part 13. Stereospecific synthesis of intermediates to the diterpene alkaloids and the C_{20}-gibberellins by a novel rearrangement of angularly fused cyclobutanones, 2881–6
CYCLOPENTAPEPTIDE
Lanthionine chemistry. Part 5. Synthesis of cyclic nonsymmetrical

CYCLOPENTAPEPTIDE(contd)
lanthionyl peptides, 1965–70
CYCLOPENTENE
Heterocyclic polyfluoro compounds. Part 29. 2:1 Adducts by photochemical addition of cycloalkenes to pentafluoropyridine, 129–31
Preparation and hydrolysis of some 4-substituted bicyclo[3.1.0]hex-2-ene-6-carboxaldehydes: synthesis of the prostaglandin A_2 analog possessing a butyl group in place of the octenol side chain 2088–92
Conjugate, homoconjugate, and 1,2-additions of acetylene nucleophiles and their application to prostaglandin synthesis, 2346–52
CYCLOPENTENONE
Photochemistry of substituted cyclic enones. Part 2. 5-[Prop-2-enyl]cyclopentenones, 1516–22
CYCLOPENTENYL
S_N' reactions on some cyclopentene derivatives employing simple nucleophiles and organocuprate reagents, 1847–52
CYCLOPEROXYMERCURIATION
Oxymetalation. Part 12. Further syntheses of monocyclic peroxides via peroxymercuriation, 2450–7
CYCLOPROPAANTHRACENONE
Hydrocyclopropa[b]anthracene derivatives, 176–80
CYCLOPROPABENZOPYRANONE
Reactions between 3-nitrochromone and diazo alkanes; Michael additions catalyzed by diazo alkanes as nitrogen bases, 2049–53
CYCLOPROPANE
Cyclopropane chemistry. Part 4. The reactions of 1,2,2-trifluoroethylidene with alkenes and pyrolysis of the resulting cyclopropanes, 314–24
CYCLOPROPANECARBOXYLATE
Pyrethroid photochemistry: mechanistic aspects in reactions of the (dihalovinyl)cyclopropanecarboxylate substituent, 728–32
CYCLOPROPENONE
Reaction of benzo[c]cinnolinium-5-(N-acyl- and N-benzimidoimides) with diphenylcyclopropenone, 1147–9
CYCLOPROPYLATION
Steric effects in the ring expansion of coumarins by 2-diazopropane and tert-butyldiazomethane, 2937–42
CYCLOPROPYLMETHYL
Formation of allyl and cyclopropylcarbinyl sulfides in the regiospecific reactions of arenesulfenyl chlorides with allyl- and but-3-enylcobaloximes, 2021–5
CYCLOSECOCHOLESTANAMIDE
Photo-induced transformations. Part 50. The photo-Beckmann rearrangement of 3α,5-cyclo-5α-cholestan-7-one oxime, a βγ-cyclopropyl ketone oxime, 2268–71
CYCLOSTEROID
The participation of 3,5-cyclosteroids in aromatization reactions, 1306–10
CYMENE
Alkyltrifluoromethanesulfonates as alkylating reagents for aromatic compounds, 2887–94
CYPERMETHRIN
Pyrethroid photochemistry: mechanistic aspects in reactions of the (dihalovinyl)cyclopropanecarboxylate substituent, 728–32
CYSTEAMINE
Purines, pyrimidines and imidazoles. Part 53. Synthesis of some 5-halo analogs of metiamide and cimetidine, 2310–15
CYTIDINE
The synthesis of thieno[2,3-d]pyrimidine nucleosides related to the naturally occurring nucleosides cytidine and uridine, 1853–8
CYTOTOXIC
Potential anticancer agents. Part 13. Cytotoxic constituents of Acanthospermum glabratum (Asteraceae), 1090–7
D2
Preparation and some reactions of 2-oxatricyclo[3.3.0.0^{4,6}]oct-7-en-3-one: synthesis of 9-deoxa-9,10-dehydroprostaglandin D_2, 2093–7
D3
Calciferol and its relatives. Part 27. A synthesis of 1α-hydroxyvitamin D_3 by way of 1α-hydroxytachysterol$_3$, 1400–4
Calciferol and its relatives. Part 28. A stereoselective synthesis of 1α-hydroxyprecalciferol$_3$ from (8-hydroxymethyl)des-AB-cholest-8-ene, 1405–6
DAKIN
Bicyclic heterocycles with nitrogen at the ring junction. Part 2. Application of the Dakin-West reaction to the synthesis of imidazo[5,1-f]-1,2,4-triazin-4(3H)-ones, 1139–46
DALBERGIA
Synthesis of the pyranoisoflavonoid, heminitidulan. Isoflavanoid and rotenoid glycosides from the bark of Dalbergia nitidula Welw. ex Bak, 2463–9
DEACYLATION
Partial protection of carbohydrate derivatives. Part 4. Regioselective 2'-O-deacylation of fully acylated purine and pyrimidine ribonucleosides with hydroxylaminium acetate, 363–73
DEALKYLATION
The dealkylation of phosphate and phosphonate esters by iodotrimethylsilane: a mild and selective procedure, 1150–3
DEAMINATION
Reductive deamination of primary amines, 2554–60
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 15. The selective modification of neamine by radical-induced deamination, 2665–9
DEAZAFLAVIN
Disproportionation in hydrolysis of pyrimido[4,5-b]quinoline-2(3H),4(10H)-diones (5-deazaflavins), 293–6
A novel synthesis of pyrimido[4,5-b]quinoline-2(3H),4(10H)-diones (5-deazaflavins) and analogs by the oxidative cyclization of 5,5'-arylmethylenebis(6-alkylamino-3-methyluracils), 978–81
DECAFLUOROFLUORANTHENE
Polycyclic fluoroaromatic compounds. Part 9. Preparation and some reactions of decafluorofluoranthene, 1726–30
DECALONE
Absolute configuration and chiroptical properties of 8-methyl-1-decalones, 950–8
DECAMETHRIN
Pyrethroid photochemistry: mechanistic aspects in reactions of the (dihalovinyl)cyclopropanecarboxylate substituent, 728–32
DECARBONYLATION
Polyfluorobicyclo[2.2.1]heptanes. Part 11. Bridgehead radicals: their generation, reactions, and CIDNP effects, 217–20
Pentacarbonyliron-promoted conversion of 3a,7a-dihydroindenones into indanones, 444–7
DECARBOXYLATION
Studies of enzyme-mediated reactions. Part 12. Stereochemical course of the decarboxylation of (2S)-tyrosine to tyramine by microbial, mammalian, and plant systems, 31–42
Studies of enzyme-mediated reactions. Part 13. Stereochemical course of the formation of histamine by decarboxylation of (2S)-histidine with enzymes from Clostridium welchii and Lactobacillus 30a, 43–51
Biosynthesis of porphyrins and related macrocycles. Part 13. Structure of the protoporphyrin isomer derived from coproporphyrinogen IV by the action of beef-liver coproporphyrinogenase: synthesis of protoporphyrin XIII, 1283–9
DECHOLESTENE
Calciferol and its relatives. Part 27. A synthesis of 1α-hydroxyvitamin D_3 by way of 1α-hydroxytachysterol$_3$, 1400–4
Calciferol and its relatives. Part 28. A stereoselective synthesis of 1α-hydroxyprecalciferol$_3$ from (8-hydroxymethyl)des-AB-cholest-8-ene, 1405–6
DECOMPN
Polyfluorobicyclo[2.2.1]heptanes. Part 11. Bridgehead radicals: their generation, reactions, and CIDNP effects, 217–20
Mechanism of thermal decomposition of tetra-aryltellurium species 1338–44
Reaction of 1,2,4,5-tetroxan with antimony pentachloride or liquid sulfur dioxide: heterolytic fission of carbon-oxygen or oxygen-oxygen bonds, 1950–4
Synthesis and reactions of 5-arylamino-1,2,4-trioxanes, 2300–3
Chain-extension reactions of acetylenes. Part 4. Reaction of 1,3-dilithioacetylides with carbonyl electrophiles, hexamethylphosphoric triamide, and benzylideneaniline, 2338–45
Synthetic applications of N–N linked heterocycles. Part 8. Regiospecific synthesis of 4-(α-acylalkyl) pyridines by attack of lithium enolates of ketones γ to N-(2,6-dimethyl-4-oxopyridin-1-yl)pyridinium salts, 2458–62
Synthesis and reactions of 1,6-diaryl-2,5-bis(diazo)-1,3,4,6-tetraoxohexanes, 2670–7
DEFLUORINATION
Polycyclic fluoroaromatic compounds. Part 9. Preparation and some reactions of decafluorofluoranthene, 1726–30
DEGRDN
Calciferol and its relatives. Part 25. A chemical degradation of 3α-hydroxycholest-9(11)-ene to des-AB-cholestane derivatives,

DEGRDN(contd)
892–6
Calciferol and its relatives. Part 26. A conversion of cholesterol into 8–hydroxymethyl–des–AB–cholest–8–ene, 897–901
The bacterial pigment from Pseudomonas lemonnieri. Part 1. Structure of a degradation product, 3–n–octanamidopyridine–2,5,6–trione, by x–ray crystallography, 1782–7
DEHALOGENATION
Fluoro olefin chemistry. Part 12. Some reactions of 3,4–dihalotetrafluorocyclobutenes: a synthesis of perfluorocyclooctatetraene, 122–5
Polyhaloaromatic compounds. Part 41. Photochemical dehalogenation and arylation reactions of polyhaloaromatic and polyhaloheteroaromatic compounds, 648–56
Electrochemical reactions. Part 23. Intramolecular radical substitution during the reduction of 2–halo–N–methyl–N–naphthylbenzamides, 657–60
DEHYDRATION
Acid–catalyzed dehydration of withanolide E, a 14α,17β,20α$_D$–trihydroxy steroid; a revision, 531–4
Cyclobutane ring opening of pin–2(10)–ene with mercury(II) salts. A new, high–yield synthesis of p–mentha–1,8–dien–7–ol, 1747–51
Preparation and stereochemistry of some 1,1–disubstituted buta–1,3–dienes, 1756–60
DEHYDRO
Synthesis and properties of a trimethyltetradehydro[17]annulenone and its benzannelated derivatives, 473–80
Chromyl halide oxidation of steroid alkenes, 639–42
Reaction of protoberberine–type alkaloids. Part 12. A facile method for regiospecific oxygenation and excited oxidative ring–cleavage of berberine alkaloids, 911–18
Synthetic study on several eremophilane sesquiterpenes using a common intermediate, 963–77
DEHYDROANNULENONE
Syntheses and properties of methyl–substituted benzannelated tetradehydro[13]annulenones, 466–72
DEHYDROBROMINATION
Unsaturated carbohydrates. Part 22. Alkenes from 5–bromohexopyranose derivatives, 1535–9
DEHYDROFUKINONE
Synthetic study on several eremophilane sesquiterpenes using a common intermediate, 963–77
DEHYDROFURANOEREMOPHILANE
Synthetic study on several eremophilane sesquiterpenes using a common intermediate, 963–77
DEHYDROGENATION
Addition reactions of heterocyclic compounds. Part 72. Dimethyl acetylenedicarboxylate with 1,2,6,7,8,9–hexahydropyrrolo[3,2,1–jk]carbazole, 535–9
Dehydrogenation of steroidal and triterpenoid ketones using benzeneseleninic anhydride, 2209–12
Condensation of αβ–unsaturated amines with perfluoroarenes, 2845–50
DEHYDROTHIAZINE
On the chemistry of β–lactamase inhibition by 6β–bromopenicillanic acid, 2322–9
DEHYDROXYLATION
Partial synthesis of gibberellin A$_9$ and [3α– and 3β–$^2H_1$]gibberellin A$_9$; gibberellin A$_5$ and [1β3–$^2H_2$ and –$^3H_2$] gibberellin A$_5$; and gibberellin A$_{20}$ and [1β,3α–$^2H_2$ and –$^3H_2$]gibberellin A$_{20}$, 885–91
Radical–initiated reduction of chloroformates to alkanes by tri–n–propylsilane. A method for removal of unwanted hydroxy–groups from organic molecules, 1207–11
DEIODINATION
Oxidative displacement of hypervalent iodine from alkyl iodides, 822–7
DEISOCYANATION
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 15. The selective modification of neamine by radical–induced deamination, 2665–9
DEMETHYLATION
2–Pyridones and 4–pyridones by oxidative demethylation of 2– and 4–methylpyridinium cations, 1888–9
DEMETHYLNIGERONE
Structural elucidation of the nigerones, four new naphthopyrones from cultures of Aspergillus niger, 2474–9
DENITRILATION
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 14. A useful radical–deamination reaction, 2657–64
DEOXO
Preparation and some reactions of 2–oxatricyclo[3.3.0.0^{4,6}]oct–7–en–3–one: synthesis of 9–deoxa–9,10–dehydroprostaglandin D$_2$, 2093–7
DEOXY
Pyranoside derivatives of 3–deoxyald–2–ulosonic acids, 1971–7
Syntheses of 1– and 6–S– and 1– and 6–Se–derivatives of 2–amino–2–deoxy–α/β–D–glucopyranose, 2287–93
DEOXYGENATION
Photochemical deoxygenation of an α–ketol: the dihydroflavonol–flavanone conversion, 1003–6
Photochemistry of methoxy–substituted quinoline and isoquinoline N–oxides, 2738–42
DEOXYGLUCOPYRANOSE
Syntheses of 1– and 6–S– and 1– and 6–Se–derivatives of 2–amino–2–deoxy–α/β–D–glucopyranose, 2287–93
DEOXYMETHYLHEXOSE
Preparation of sugars with branched chains, a methylene bridge, or C–1–phenyl substituents by the Ramirez dioxaphosphole condensation, 1262–6
DEOXYNITROPENTOPYRANOSIDE
Branched–chain sugars. 9. Characterization of the stereoisomeric methyl 3–deoxy–3–C–methyl–3–nitropentopyranosides resulting from the condensation of nitroethane with L'–methoxydiglycoaldehyde and the x–ray crystal structure of methyl 2,4–di–O–acetyl–3–deoxy–3–C–methyl–3–nitro–β–D–xylopyranoside, 995–1002
DEOXYOCTULOPYRANOSIDONATE
Pyranoside derivatives of 3–deoxyald–2–ulosonic acids, 1971–7
DEOXYOCTULOSONATE
Pyranoside derivatives of 3–deoxyald–2–ulosonic acids, 1971–7
DEOXYPENTOPYRANOSIDE
Branched–chain sugars. 9. Characterization of the stereoisomeric methyl 3–deoxy–3–C–methyl–3–nitropentopyranosides resulting from the condensation of nitroethane with L'–methoxydiglycoaldehyde and the x–ray crystal structure of methyl 2,4–di–O–acetyl–3–deoxy–3–C–methyl–3–nitro–β–D–xylopyranoside, 995–1002
DEOXYPENTOSE
Photobromination of carbohydrate derivatives. Part 5. Preparation and reactions of (5S)–1,2,3,4–tetra–O–acetyl–5–bromo–β–D–xylopyranose; a new type of 'double–headed' nucleoside, 2767–73
DEOXYRIBONUCLEOSIDE
Methylation study of ribonucleosides, deoxyribonucleosides, and 2'–O–methylribonucleosides with trimethylsulfonium hydroxide and trimethylsulfonium iodide. Influence of the 2'–hydroxy–groups on the reactivity of the base moieties of ribonucleosides, 2787–92
DEOXYSULFOGLUCOPYRANOSYL
Synthesis of 3–O–(6–deoxy–6–sulfo–α–D–glucopyranosyl)–1,2–di–O–hexadecanoyl–L–glycerol, sulfoquinovosyl diglyceride, 2490–3
DEOXYSULFOGLUCOPYRANOSYLDIHEXADECANOYLGLYCEROL
Synthesis of 3–O–(6–deoxy–6–sulfo–α–D–glucopyranosyl)–1,2–di–O–hexadecanoyl–L–glycerol, sulfoquinovosyl diglyceride, 2490–3
DEOXYTETRAHYDRO
18–Substituted steroids. Part 6. Synthesis of 3α,18–dihydroxy–11β,18–epoxy–5β–pregnan–20–one(21–deoxy–3α,5β–tetrahydroaldosterone), 2597–607
DEOXYTETRAHYDROALDOSTERONE
18–Substituted steroids. Part 6. Synthesis of 3α,18–dihydroxy–11β,18–epoxy–5β–pregnan–20–one(21–deoxy–3α,5β–tetrahydroaldosterone), 2597–607
DEPROTECTION
The allyl ether as a protecting group in carbohydrate chemistry. Part 11. The 3–methylbut–2–enyl ('prenyl') group, 738–40
DEPROTONATION
Stable carbocations. Part 22. Stereochemistry of the deprotonation of ferrocenylalkylium ions, and of the protonation of alkenylferrocenes, 2213–17
DESCHOLESTANE
Calciferol and its relatives. Part 25. A chemical degradation of 3α–hydroxycholest–9(11)–ene to des–AB–cholestane derivatives, 892–6
DESCHOLESTENE
Calciferol and its relatives. Part 26. A conversion of cholesterol into 8–hydroxymethyl–des–AB–cholest–8–ene, 897–901
DESGLUCOSYRIOSIDE
Stereochemistry of the hexosulose in cardenolide glycosides of the Asclepiadaceae, 2162–8

DESILYLBROMINATION
β-Silylcarbonyl compounds as masked enones, 1493–8
DESULFURIZATION
Heterocycles in organic synthesis. Part 13. The reaction of 2,4-diphenylthiopyrylium perchlorate with amines, 1345–6
Synthesis of potentially basic hydrocarbons by sulfur extrusion and/or bis-Wittig reactions. Two syntheses of benz[5,6]indeno[2,-1-a]phenalene and a new synthesis of dibenzo[de,mn]naphthacene (zethrene), 2812–17
DETHIOMETHYLTHIOGLIOTOXIN
Biosynthesis of bisdethiobis(methylthio)gliotoxin, a new metabolite of Glioclaadium deliquescens, 119–21
DEUTERATION
Mechanism and stereochemistry of conjugate reduction of enones from gibberellins A_3 and A_7, 877–84
Partial synthesis of gibberellin A_9 and [3α- and 3β-$^2H_1$]gibberellin A_9; gibberellin A_5 and [1β3-$^2H_2$ and -$^3H_2$] gibberellin A_5; and gibberellin A_{20} and [1β,3α-$^2H_2$ and -$^3H_2$]gibberellin A_{20}, 885–91
DEUTERIOTRIPHENYLDIHYDROPYRIDINE
Reductive deamination of primary amines, 2554–60
DEUTERIUM
Reductive deamination of primary amines, 2554–60
DIACETOXY
18-Substituted steroids. Part 5. Further studies on the synthesis of 11β,18,21-trihydroxypregn-4-ene-3,20-dione ('18-hydroxycorticosterone'), 2591–6
DIALDEHYDE
Lythraceous alkaloids. Part 11. Total synthesis of (±)-lythranidine 1066–9
DIALKYNYL
Alkynyl- and dialkynylquinoxalines. Synthesis of condensed quinoxalines, 1384–9
DIAMINE
The formation of complexes between aza-derivatives of crown ethers and primary alkylammonium salts. Part 6. Bis(mono-aza)crown ethers, 586–600
Synthetic C-glycosyl nucleosides. A new approach, 2683–5
DIAMINO
2-Imidazolines. Part 2. Pyrolysis of 1-acyl-4,5-diamino-4,5-dihydroimidazoles: a novel pyrimidine synthesis, 722–7
DIARYL
Methods for the construction of linear 1,7-diarylheptanoids; synthesis of di-O-methylcentrolobol and precursors (synthetic and biosynthetic) to the meta,meta-bridged biphenyls myricanol and myricanone, 614–22
The thermolysis of polyazapentadienes. Part 1. 1,5-Diaryl-1,2,5-triaza derivatives, 2200–4
DIARYLHEPTANOID
Methods for the construction of linear 1,7-diarylheptanoids; synthesis of di-O-methylcentrolobol and precursors (synthetic and biosynthetic) to the meta,meta-bridged biphenyls myricanol and myricanone, 614–22
DIARYLTRIAZAPENTADIENE
The thermolysis of polyazapentadienes. Part 1. 1,5-Diaryl-1,2,5-triaza derivatives, 2200–4
DIASTEREOISOMER
The chemistry of fungi. Part 76. The synthesis and transformations of three stereoisomeric 2-(2,6-dimethoxybenzoyl)-3-methoxycarbonyl-7-oxabicyclo[2.2.1]heptanes, 2435–44
DIAZA
Photochemical electrocyclization of 1,4,6-trisubstituted pyrimidin-2-ones to 2-oxo-1,3-diazabicyclo[2.2.0]hex-5-enes, 607–10
The reactions of some tetrahydro-β-carbolines, of hexahydroazepino[3,4-b]indoles, and of tetrahydrocarbazolones with arenesulfonyl azides, 1512–15
DIAZABICYCLOHEXENE
Photochemical electrocyclization of 1,4,6-trisubstituted pyrimidin-2-ones to 2-oxo-1,3-diazabicyclo[2.2.0]hex-5-enes, 607–10
DIAZABICYCLOOCTANEDIONE
Pyrazines. Part 5. Preparation of 3,8-diazabicyclo[3.2.1]octane-2,4-dione derivatives, 1603–6
Synthesis of 2,4-diazabicyclo[3.3.0]octane-3,7-diones and 3-thioxo-2,4-diazabicyclo[3.3.0]octan-7-one by an intramolecular Michael-type reaction. Stability of 2,4-diaza-, 4-oxa-2-aza-, and 4-thia-2-aza-bicyclo[3.3.0]octane-3,7-diones, 2497–502
DIAZEPINE
Photochemical isomerization of 3H-1,2-diazepines to 4,6a-dihydro[1,2]diazeto[1,4-a]pyrroles, 1230–2
DIAZETOPYRROLE
Photochemical isomerization of 3H-1,2-diazepines to 4,6a-dihydro[1,2]diazeto[1,4-a]pyrroles, 1230–2
DIAZO
Acid-catalyzed decomposition of β,γ-unsaturated diazo-ketones: preparation of 4,4-dimethyl-D-norsteroidal systems from pimaradiene and sandaracopimaradiene precursors, 1924–7
Reactions between 3-nitrochromone and diazo alkanes; Michael additions catalyzed by diazo alkanes as nitrogen bases, 2049–53
DIAZOACETYL
The synthesis of thiophenium and of oxazolium salts from diazoketones, 1185–93
DIAZOACETYLTHIANTHRENE
The synthesis of thiophenium and of oxazolium salts from diazoketones, 1185–93
DIAZOALKANE
Steric effects in the ring expansion of coumarins by 2-diazopropane and tert-butyldiazomethane, 2937–42
DIAZOANTHRONE
Syntheses and reactions of spirocyclopropaneanthrones. Part 2. Rearrangements and cyclopropyl ring opening reactions of phenyl-substituted spirocyclopropaneanthrones and related compounds, 2835–41
DIAZONIUM
New dyes based on 3-arylbenzo- and -naphtho-1,4-thiazines, 2923–32
DIAZOOXOHEXANE
Synthesis and reactions of 1,6-diaryl-2,5-bis(diazo)-1,3,4,6-tetraoxohexanes, 2670–7
DIAZOPIMARENONE
Acid-catalyzed decomposition of β,γ-unsaturated diazo-ketones: preparation of 4,4-dimethyl-D-norsteroidal systems from pimaradiene and sandaracopimaradiene precursors, 1924–7
DIAZOPROPANE
Steric effects in the ring expansion of coumarins by 2-diazopropane and tert-butyldiazomethane, 2937–42
DIAZOTIZATION
Bacteriostatic activity of fluoro analogs of 5-(2-hydroxyethyl)-4-methylthiazole, a metabolic intermediate in the biosynthesis of thiamine, 2026–8
DIBASIC
Photobromination of carbohydrate derivatives. Part 5. Preparation and reactions of (5S)-1,2,3,4-tetra-O-acetyl-5-bromo-β-D-xylopyranose; a new type of 'double-headed' nucleoside, 2767–73
DIBENZACRIDINE
A general and practicable synthesis of polycyclic heteroaromatic compounds. Part 3. Extension of the synthesis to 'quinone methides' of naphthalene, phenanthrene, and benzene, 1233–9
DIBENZACRIDINIUM
Improved methods for conversion of primary amines into bromides 1890–4
DIBENZANTHRACENE
Reduction of ortho-quinones to dihydrodiols, 1920–3
DIBENZAZECINE
Oxidative coupling of phenols and phenolic ethers. Part 4. Synthesis of dibenz[d,f]azonines and a dibenz[d,f]azecine via direct coupling, 1104–8
DIBENZAZONINE
Oxidative coupling of phenols and phenolic ethers. Part 4. Synthesis of dibenz[d,f]azonines and a dibenz[d,f]azecine via direct coupling, 1104–8
DIBENZOCYCLOHEPTADECENONE
Synthesis and properties of a trimethyltetradehydro[17]annulenone and its benzannelated derivatives, 473–80
DIBENZOCYCLOHEPTENECARBOXAMIDE
Electrochemical oxidation of aromatic ethers. Part 6. Oxidation of 4-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-methyl-1,2,3,4-tetrahydroisoquinoline and attempted synthesis of 4-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-methyl-1,4-dihydro-3(2H)-isoquinolone, 2013–20
DIBROMOETHOXYPROPIONATE
Synthesis of ethyl 3-bromo-2-ethoxy-2-(4-hydroxybenzoyloxy)propionate and attempts at cyclization. A correction, 2691–2
DICHLOROPURINYL
Photobromination of carbohydrate derivatives. Part 5. Preparation and reactions of (5S)-1,2,3,4-tetra-O-acetyl-5-bromo-β-D-xylopyranose; a new type of 'double-headed' nucleoside, 2767–73
DIELS
Partially fluorinated heterocyclic compounds. Part 12. Novel

DIELS(contd)
internal Diels–Alder adducts via Claisen rearrangement intermediates from tetrafluoro–4– and –3–pyridyl prop–2–enyl ethers. Syntheses of tetrafluoro–3–aza– and –4–aza–tricyclo[3.3.–1.0^{2,7}]non–3–en–6–one, 102–6
Studies related to anthracyclines. Part 1. Some Diels–Alder reactions of 4a,9a–epoxy–4a,9a–dihydroanthracene–1,4,9,10–tetrone, 1007–12
Polyfluoroalkyl derivatives of nitrogen. Part 48. The addition of N–haloamines $(CF_3)_2NX$ to cyclohexa–1,3– and –1,4–dienes; a new synthesis of NN–bis(trifluoromethyl)aniline, 1544–50
Stereochemistry of Diels–Alder reactions of allenic sulfones; transfer of asymmetry from allenic to norbornene systems, 1646–9
Benzocyclobutenes. Part 4. Synthesis of benzocyclobutene–1,2–diones by pyrolytic methods, 1834–40
Polyfluoroalkyl derivatives of nitrogen. Part 49. Ene reactions of trifluoronitrosomethane: formation of N–trifluoromethylhydroxylamines, 1960–4
Studies on the syntheses of heterocyclic compounds. Part 855. Cycloaddition reaction of bis(trimethylsilyl)allenedicarboxylate with homocyclic dienes, 2801–4

DIENE
Unsaturated steroids. Part 10. The mechanism of the anthrasteroid rearrangement: the conformation of anthrasteroids, 1779–81
The photochemical reactions of benzene with 1,2–, 1,3–, and 1,4–dienes, 2425–34

DIENONE
Cyclization of polyenes. Part 32. Selective bromination of polyenes by 2,4,4,6–tetrabromocyclohexa–2,5–dienone, 1051–6

DIETHYLAMINO
Synthesis and photolysis of azidobenzo[b]thiophenes, –benzothiazoles, –benzimidazoles, and –indazoles: novel 6,7–diaminobenzothiazoles, –benzimidazoles, and –indazoles and 6–diethylamino–8H–thiazolo[5,4–c]azepines, 2362–70

DIFFERENTIATION
Selective hydrogenation of 4,5–dihydro–1,3–oxazin–6–ones to carboxaldehyde derivatives; chemical differentiation between acylazetidin–2–ones and the corresponding isomeric oxazin–6–ones, 378–80

DIFLUORO
Heterocyclic polyfluoro–compounds. Part 33. Photochemical oxetane formation from fluoro ketones and perfluoro aldehydes and 1,2–difluoroethylene, 2258–67

DIFLUOROETHENE
Heterocyclic polyfluoro–compounds. Part 33. Photochemical oxetane formation from fluoro ketones and perfluoro aldehydes and 1,2–difluoroethylene, 2258–67

DIGLYCERIDE
A possible model for a new chiral glyceride synthesis. Part 2. Synthesis of 1,3–di–O–aroyl– and 1–O–aroyl–3–O–tosyl–sn–glycerols from 2,5–O–methylene D–mannitol, 1–6
Synthesis of 3–O–(6–deoxy–6–sulfo–α–D–glucopyranosyl)–1,2–di–O–hexadecanoyl–L–glycerol, sulfoquinovosyl diglyceride, 2490–3

DIHALO
Pyrolytic elimination of hydrogen halide and halogen from 2,3–dihaloketones, 1299–305

DIHALOCHALCONE
Pyrolytic elimination of hydrogen halide and halogen from 2,3–dihaloketones, 1299–305

DIHEXADECANOYL
Synthesis of 3–O–(6–deoxy–6–sulfo–α–D–glucopyranosyl)–1,2–di–O–hexadecanoyl–L–glycerol, sulfoquinovosyl diglyceride, 2490–3

DIHYDRO
Reactions of 4,5–dihydro–5–methylpyrano[4,3–b]indole–1,3–dione; a synthesis of N–methylisotryptophol, 1688–92
Synthesis and reactions of azidobenzothiazoles and –benzo[b]thiophenes. Novel thiazolo[4,5–g]benzoxazoles and dihydrothieno[3,2–g]benzoxazoles, 2358–61

DIHYDROISOBENZOFURAN
The chemistry of fungi. Part 77. The synthesis of benzophenones from phthalides: X–ray crystallographic definition of a novel isobenzofuran system, 2445–9

DIHYDROMETHYLTHIENOBENZOXAZOLE
Synthesis and reactions of azidobenzothiazoles and –benzo[b]thiophenes. Novel thiazolo[4,5–g]benzoxazoles and dihydrothieno[3,2–g]benzoxazoles, 2358–61

DIHYDROPYRIDINE
Reductive deamination of primary amines, 2554–60

DIHYDROTHIAZINE
On the chemistry of β–lactamase inhibition by 6β–bromopenicillanic acid, 2322–9

DIHYDROXY
Vesicant principles of poison ivy and related plants: synthesis of the urushiols, 1,2–dihydroxy–3–[(Z)–pentadec–8–enyl]benzene and 1,2–dihydroxy–3–pentadecylbenzene, 2331–7

DIISOPHORANONE
Diisophorone and related compounds. Part 5. 2,7–Epoxydiisophoranes: oxirane cleavage by perchloric acid, 733–7

DIISOTHIOCYANATE
The chemistry of o–phenylene diisothiocyanate. Part 2. Reactions with enamines, an ynamine and some reactive methylene compounds, 2587–90
The chemistry of o–phenylenediisothiocyanate. Part 3. Studies on the syntheses of heterocyclic compounds, 2608–11
Some reactions of vinylene diisothiocyanate, 2717–20

DIKETONE
Isomerism and lead(IV) acetate oxidation reactions of p–substituted phenylosazones of some substituted glyoxals and 1,2–diketones. Reactions of metallic acetates with nitrogen compounds. Part 5, 744–9

DILITHIO
Chain–extension reactions of acetylenes. Part 4. Reaction of 1,3–dilithioacetylides with carbonyl electrophiles, hexamethylphosphoric triamide, and benzylideneaniline, 2338–45

DILITHIOACETYLIDE
Chain–extension reactions of acetylenes. Part 4. Reaction of 1,3–dilithioacetylides with carbonyl electrophiles, hexamethylphosphoric triamide, and benzylideneaniline, 2338–45

DIMER
1,3–Dipolar character of six–membered aromatic rings. Part 48. Novel conversions of pyridines to isoquinolines, 331–42
Lewis–acid–induced electrophilic substitution in indoles with acetone. Part 2, 553–5

DIMERIZATION
1,3–Dipolar character of six–membered aromatic rings. Part 51. Cycloadditions of 1–(β–benzoylvinyl)–3–oxidopyridiniums and subsequent transformations, 362–71
Lewis–acid–induced electrophilic substitution in indoles with acetone. Part 2, 553–5
Addition reactions of benzo[b]thiophene. Part 1. Self–addition and addition of simple aromatic hydrocarbons, 677–85
New olefin and oxirane syntheses from carbonyl compounds, and diethyl sodiophosphonate anions and 1–aminophosphonate amino–anions, 1731–8
Convenient syntheses of alkyl β–resorcylate derivatives, 2272–7
Enamidines. Part 1. Synthesis of enamidines and dihydrotriazines by the reaction of organolithium and organomagnesium compounds with aromatic nitriles, 2392–7

DIMETHOXY
Long–chain phenols. Part 16. A novel synthesis of homologous orsellinic acids and their methyl ethers, 1658–66

DIMETHOXYBENZOYLMETHOXYCARBONYL
The chemistry of fungi. Part 76. The synthesis and transformations of three stereoisomeric 2–(2,6–dimethoxybenzoyl)–3–methoxycarbonyl–7–oxabicyclo[2.2.1]heptanes, 2435–44

DIMETHOXYBENZOYLMETHOXYCARBONYLOXABICYCLOHEPTANE
The chemistry of fungi. Part 76. The synthesis and transformations of three stereoisomeric 2–(2,6–dimethoxybenzoyl)–3–methoxycarbonyl–7–oxabicyclo[2.2.1]heptanes, 2435–44

DIMETHYL
Branched–chain sugars. Part 10. Some approaches to the synthesis of L–evernitrose (2,3,6–trideoxy–3–C,4–O–dimethyl–3–nitro–L–arabinohexopyranose), 2054–60
Nucleophilic displacement and spiro–complex formation in NN'–dimethyl–N–picrylethylenediamine, 2205–8
Convenient syntheses of alkyl β–resorcylate derivatives, 2272–7

DIMETHYLALLYL
Biosynthesis of aromatic isoprenoids. Part 5. The preparation of 1–(3,3–dimethylallyl)–L–tryptophan and cyclo–L–alanyl–1–(3,3–dimethyl–allyl)–L–tryptophan and their nonincorporation into echinulin, 1294–8

DIMETHYLLITHIOBENZENE
The chemistry of fungi. Part 77. The synthesis of benzophenones from phthalides: X–ray crystallographic definition of a novel isobenzofuran system, 2445–9

DIMETHYLOXOPYRIDINYL
Synthetic applications of N–N linked heterocycles. Part 7. The preparation of 4–alkyl– and 4–aryl–pyridines by regiospecific attack of Grignard reagents γ to quaternary nitrogen in N–(2,6–dimethyl–4–oxopyridin–1–yl)pyridinium salts, 2480–4
DIMETHYLOXOPYRIDINYLPYRIDINIUM
Synthetic applications of N–N linked heterocycles. Part 7. The preparation of 4–alkyl– and 4–aryl–pyridines by regiospecific attack of Grignard reagents γ to quaternary nitrogen in N–(2,6–dimethyl–4–oxopyridin–1–yl)pyridinium salts, 2480–4
DIMETHYLPICRYLETHLENEDIAMINE
Nucleophilic displacement and spiro–complex formation in NN'–dimethyl–N–picrylethylenediamine, 2205–8
DIMETHYLPICRYLETHYLENEDIAMINE
Nucleophilic displacement and spiro–complex formation in NN'–dimethyl–N–picrylethylenediamine, 2205–8
DIMROTH
Synthesis of heterocyclic compounds via enamines. Part 8. Acid–catalyzed transformations in 4,4,6–trimethyl–1,4–dihydropyrimidine–2(3H)–thione derivatives and related compounds, 1013–18
DINAPHTHODITHIACYCLOUNDECIN
Synthesis of potentially basic hydrocarbons by sulfur extrusion and/or bis–Wittig reactions. Two syntheses of benz[5,6]indeno[2,1–a]phenalene and a new synthesis of dibenzo[de,mn]naphthacene (zethrene), 2812–17
DINAPHTHOFURANOQUINONE
Further conversions of naphthoquinones into dinaphthofuranquinones, 90–2
DINITROGEN
Synthesis and reactions of 1,6–diaryl–2,5–bis(diazo)–1,3,4,6–tetraoxohexanes, 2670–7
DINORPENICILLINSPIROCYCLOPENTANE
Studies related to penicillins and cephalosporins. Part 6. Synthesis of the (±)–dinorpenicillin–spirocyclopentane system, 2228–32
DIOL
Reduction of ortho–quinones to dihydrodiols, 1920–3
Reactions of androsta–3,5–dienes with m–chloroperbenzoic acid, 2581–6
Mechanism of diol formation in the reaction of benzylic Grignard reagents with aldehydes, 2631–6
DIOSPYROS
Ebenaceae extractives. Part 8. The structure of diosquinone and reactions of related quinone epoxides, 1161–4
DIOSQUINONE
Ebenaceae extractives. Part 8. The structure of diosquinone and reactions of related quinone epoxides, 1161–4
DIOXAAZACYCLOHEXANE
Enamine chemistry. Part 27. The effect of additional α– and β–heteroatoms on the p_π–conjugation and reactivity of enamines. Sub or super enamines?, 2383–6
DIOXACYCLOALKANE
Oxymetalation. Part 12. Further syntheses of monocyclic peroxides via peroxymercuriation, 2450–7
DIOXAPHOSPHOLE
Preparation of sugars with branched chains, a methylene bridge, or C–1–phenyl substituents by the Ramirez dioxaphosphole condensation, 1262–6
DIOXATRICYCLONONANE
Addition of thallium triacetate to $PGF_{2\alpha}$ methyl ester and related compounds in acetic acid. Nuclear magnetic resonance spectral study of novel dioxatricyclic and oxabicyclic products, 2572–80
DIOXAZOLE
The reaction of nitrosocarbonyl compounds with 2,5–disubstituted furans. Synthesis of 1,4,2–dioxazine and 1,4,2–dioxazole derivatives, 2408–16
DIOXIDE
Cooligomerization of butadiene and carbon dioxide catalyzed by tertiary phosphine–palladium complexes, 693–8
Preparation of 2–arylmethylene–5–methylbenzo[b]thiophen–3(2H)–one 1–oxides, 1,1–dioxides, spiroepoxides, 1–oxide spiroepoxides, and 1,1–dioxide spiroepoxides, 1194–8
Reaction of 1,2,4,5–tetroxan with antimony pentachloride or liquid sulfur dioxide: heterolytic fission of carbon–oxygen or oxygen–oxygen bonds, 1950–4
Chain–extension reactions of acetylenes. Part 4. Reaction of 1,3–dilithioacetylides with carbonyl electrophiles, hexamethylphosphoric triamide, and benzylideneaniline, 2338–45
Synthesis and reactions of azidobenzothiazoles and –benzo[b]thiophenes. Novel thiazolo[4,5–g]benzoxazoles and dihydrothieno[3,2–g]benzoxazoles, 2358–61
The chemistry of o–phenylenediisothiocyanate. Part 3. Studies on the syntheses of heterocyclic compounds, 2608–11
DIOXIN
Heterocyclic polyfluoro compounds. Part 33. Competing 1,2– and 1,4–photochemical addition of hexafluorobiacetyl to 1,2–difluoroethylene, 2523–6
DIOXOLANE
Reactions of coordinated ligands. Part 8. Reaction of Grignard reagents with 2–alkoxy–1,3–dioxolanes; an improved route to aldehydes, 756–8
Polymer–supported phosphonates. Olefins from aldehydes, ketones, and dioxolanes by means of polymer–supported phosphonates, 2516–19
DIPHENYL
[6+3] Cycloadditions of 1,1– and 1,3–diphenyl–2–azaallyllithium to cycloheptatriene, 672–4
A novel reduction of activated olefins by lithium amides, 1267–9
α–(4,6–Diphenyl–2–oxo–1–pyridyl)benzyllithiums and their reactions with electrophiles, 2851–5
DIPHENYLALKYL
A novel reduction of activated olefins by lithium amides, 1267–9
DIPHENYLAZAALLYLLITHIUM
[6+3] Cycloadditions of 1,1– and 1,3–diphenyl–2–azaallyllithium to cycloheptatriene, 672–4
DIPHENYLAZABICYCLODECADIENE
[6+3] Cycloadditions of 1,1– and 1,3–diphenyl–2–azaallyllithium to cycloheptatriene, 672–4
DIPHENYLIODIUM
Studies on the preparation of N–alkyl–O–phenylhydroxylamines, 2781–6
DIPHENYLMETHYL
Studies related to penicillins and cephalosporins. Part 6. Synthesis of the (±)–dinorpenicillin–spirocyclopentane system, 2228–32
DIPHENYLOXOPYRIDYL
α–(4,6–Diphenyl–2–oxo–1–pyridyl)benzyllithiums and their reactions with electrophiles, 2851–5
DIPHENYLOXOPYRIDYLBENZYLLITHIUM
α–(4,6–Diphenyl–2–oxo–1–pyridyl)benzyllithiums and their reactions with electrophiles, 2851–5
DIPHENYLOXOPYRIDYLMETHYLBENZYLLITHIUM
α–(4,6–Diphenyl–2–oxo–1–pyridyl)benzyllithiums and their reactions with electrophiles, 2851–5
DIPOLAR
Reaction of 1,3–dipoles with 3–pyrrolidino–2–benzopyran–1–one, 846–8
DIPOLAROPHILE
1,3–Dipolar character of six–membered aromatic rings. Part 49. 3–Oxido–1–(4–pyridyl)pyridinium, 3–oxido–1–(2–pyridyl)pyridiniu–m, 3–oxido–1–(quinoxolin–2–yl)pyridinium, 3–oxido–1–(5,6–diphenyl–1,2,4–triazin–3–yl)pyridinium, and 3–oxido–1–(5–phenyl–1,2,4–triazin–3–yl)pyridinium, 343–53
DIPOLE
Studies on steroids. Part 48. Neighboring group effects. Part 2. Effect of epoxide on the hydrolysis of adjacent acetate groups, 2507–10
DISACCHARIDE
Artificial carbohydrate antigens: synthesis of rhamnose trisaccharide and disaccharide haptens common to Shigella flexneri O–antigens, 297–301
'Le BOP' reagent and imidazole for selective O–acylation of trehalose, 1940–3
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 15. The selective modification of neamine by radical–induced deamination, 2665–9
DISCRETINE
Studies on tetrahydroisoquinolines. Part 15. Lead tetraacetate oxidation of four hydroxytetrahydroprotoberberines, (±)–govanine, (±)–discretine, (±)–corytencine, and (±)–10–hydroxy–2,3,11–trimethoxytetrahydroprotoberberine, 1169–75
DISPROPORTIONATION
Disproportionation in hydrolysis of pyrimido[4,5–b]quinoline–2(3H),4(10H)–diones (5–deazaflavins), 293–6
Thermolysis of o–alkylnitrosobenzenes. Unusually ready [1,5] hydrogen shift involving a nitroso group, 1365–9
Alkyltrifluoromethanesulfonates as alkylating reagents for aromatic compounds, 2887–94
DISULFIDE
Heterocyclic compounds. Part 6. Synthesis of 1,3,4–thiadiazolidines

DISULFIDE(contd)
from the reactions of phenyl hydrazones with phenyl isothiocyanate and carbon disulfide, 574–8
Acid–catalyzed rearrangement of bis-5,6-dihydro-4H-1,3-thiazin-2-yl and other disulfides and related reactions, 665–71
Radical–nucleophilic substitution ($S_{RN}1$) reactions: preparation and reactions of α-nitrosulfides, 1407–13
Derivatives of 3H-1,2,3-triazolo[4,5-d][1,3]thiazine, a new heterocyclic nucleus. Some shifts of a methylene group from a nitrogen to a sulfur atom, 2009–12
Sulfur nitrides in organic chemistry. Part 8. Reaction of tetrasulfur tetranitride with Grignard reagents and organolithium compounds, 2417–21
The chemistry of o-phenylenediisothiocyanate. Part 3. Studies on the syntheses of heterocyclic compounds, 2608–11
DITERPENE
Terpenoids. Part 8. Partial syntheses of ent-11β-, 12α-, and 12β-hydroxykaur-16-en-19-oic acids from grandiflorenic acid, 1270–8
Terpenoids. Part 9. 10α → 9α-Methyl migration in derivatives of grandiflorenic acid, 1279–82
Total synthesis of the macrocyclic diterpene (–)-casbene, the putative biogenetic precursor of lathyrane, tigliane, ingenane, and related terpenoid structures, 1711–17
Synthetic studies towards complex diterpenoids. Part 13. Stereospecific synthesis of intermediates to the diterpene alkaloids and the C_{20}-gibberellins by a novel rearrangement of angularly fused cyclobutanones, 2881–6
DITHIADIAZEPINE
The chemistry of o-phenylenediisothiocyanate. Part 3. Studies on the syntheses of heterocyclic compounds, 2608–11
DITHIAN
Methods for the construction of linear 1,7-diarylheptanoids; synthesis of di-O-methylcentrolobol and precursors (synthetic and biosynthetic) to the meta,meta-bridged biphenyls myricanol and myricanone, 614–22
DITHIANE
Acetogenin synthesis. Organocopper reagents, anions of 1,3-dithianes and of protected cyanohydrins as intermediates in ketide side-chain synthesis, 136–40
Lithium ketene thioacetalides. Factors influencing α- versus γ-alkylation, 2678–82
DITHIANYL
Synthetic approach to (±)-vincamine via cleavage of an α-diketone monothioacetal. Alternative synthesis of (±)-eburnamine, (±)-isoeburnamine, and (±)-eburnamenine, 457–61
DITHIANYLETHOXYCARBONYLETHYLCYCLOHEXANONE
Synthetic approach to (±)-vincamine via cleavage of an α-diketone monothioacetal. Alternative synthesis of (±)-eburnamine, (±)-isoeburnamine, and (±)-eburnamenine, 457–61
DITHIAZINE
Synthesis of 5,6-dihydro-4H-1,3,5-dithiazines, 2,3-dihydro-6-thioxo-6H-1,3-thiazine, and 6-amino-1,3-dithiins, 1038–44
DITHIETAN
Fluoro olefin chemistry. Part 13. A further route to perfluoro-2,3-dimethylbut-2-ene and the photochemical rearrangement of some perfluoroalkyl olefins, 487–9
DITHIIN
Synthesis of 5,6-dihydro-4H-1,3,5-dithiazines, 2,3-dihydro-6-thioxo-6H-1,3-thiazine, and 6-amino-1,3-dithiins, 1038–44
DITHIOCARBAMATE
Acid–catalyzed rearrangement of bis-5,6-dihydro-4H-1,3-thiazin-2-yl and other disulfides and related reactions, 665–71
DITHIOCARBONATE
Synthesis of [1,3,5]thiadiazino[3,2-a]benzimidazole-2,4(3H)-diones and their sulfur analogs, 762–5
Conversion of thiocarbonyl compounds into their corresponding oxo-derivatives using benzeneseleninic anhydride, 1650–3
DITHIOCYANATE
The formation of complexes between aza-derivatives of crown ethers and primary alkylammonium salts. Part 6. Bis(monoaza)crown ethers, 586–600
DITHIOLANE
Synthesis of 5,6-dihydro-4H-1,3,5-dithiazines, 2,3-dihydro-6-thioxo-6H-1,3-thiazine, and 6-amino-1,3-dithiins, 1038–44
DITHIOLATE
Synthesis of 5,6-dihydro-4H-1,3,5-dithiazines, 2,3-dihydro-6-thioxo-6H-1,3-thiazine, and 6-amino-1,3-dithiins, 1038–44
DITHIOLYLIDENEARYLETHANETHIOAMIDE
Studies on heterocyclic chemistry. Part 21. Reactions of 3-mercapto- and 3-acylthio-3-isothiazoline-5-thiones: ring transformations, a base-induced ring cleavage, and thiol ester–thioxo ester rearrangements, 2693–9
DITWISTANE
Hydrogenation of cyclobutanes in strained cage compounds. Synthesis of ditwistane and bisnorditwistane (ditwistbrendane), 163–9
DRIMANE
Fungal metabolites. Part 5. Uvidins, new drimane sesquiterpenes from Lactarius uvidus Fries, 221–6
DRIMENOL
Fungal metabolites. Part 5. Uvidins, new drimane sesquiterpenes from Lactarius uvidus Fries, 221–6
Crystal structure and absolute configuration of a new sesquiterpenoid metabolite of Fomes annosus, 7α,8β,11-trihydroxydrimane, 2196–9
DUBINIDINE
Quinoline alkaloids. Part 19. Synthesis of O-methylptelefolonium iodide and (±)-dubinidine, 1136–8
DULACIA
Manicol, an aromatic sesquiterpene from Dulacia guianensis (Liriosma cf. acuta), 2065–9
DYE
Heterocycles in organic synthesis. Part 13. The reaction of 2,4-diphenylthiopyrylium perchlorate with amines, 1345–6
New dyes based on 3-arylbenzo- and -naphtho-1,4-thiazines, 2923–32
EBURNAMENINE
Synthetic approach to (±)-vincamine via cleavage of an α-diketone monothioacetal. Alternative synthesis of (±)-eburnamine, (±)-isoeburnamine, and (±)-eburnamenine, 457–61
EBURNAMINE
Synthetic approach to (±)-vincamine via cleavage of an α-diketone monothioacetal. Alternative synthesis of (±)-eburnamine, (±)-isoeburnamine, and (±)-eburnamenine, 457–61
ECHINULIN
Biosynthesis of aromatic isoprenoids. Part 5. The preparation of 1-(3,3-dimethylallyl)-L-tryptophan and cyclo-L-alanyl-1-(3,3-dimethyl-allyl)-L-tryptophan and their nonincorporation into echinulin, 1294–8
EDULENANE
Structure and synthesis of isoflavonoid analogs from Neorautanenia amboensis Schinz, 1804–9
EDULENANOL
Structure and synthesis of isoflavonoid analogs from Neorautanenia amboensis Schinz, 1804–9
EISTERT
Studies on the syntheses of heterocyclic compounds. Part 855. Cycloaddition reaction of bis(trimethylsilyl)allenedicarboxylate with homocyclic dienes, 2801–4
ELECTROCHEM
Electrochemical reactions. Part 23. Intramolecular radical substitution during the reduction of 2-halo-N-methyl-N-naphthylbenzamides, 657–60
Electroorganic reactions. Part 16. The preparative-scale cathodic hydrogenolysis and coupling of benzyl-, allyl-, cinnamyl-, and polyenylphosphonium salts, 1154–60
Electrochemical oxidation of aromatic ethers. Part 6. Oxidation of 4-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-methyl-1,2,3,4-tetrahydroisoquinoline and attempted synthesis of 4-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-methyl-1,4-dihydro-3(2H)-isoquinolone, 2013–20
ELECTROCYCLIZATION
Photochemical electrocyclization of 1,4,6-trisubstituted pyrimidin-2-ones to 2-oxo-1,3-diazabicyclo[2.2.0]hex-5-enes, 607–10
Electrocyclic reactions of protonated chalcones: synthesis of 3-arylindan-1-ones, 837–42
The synthesis of 1H- and 5H-thieno[1,2]diazepines by the electrocyclization of α-(2-alkenylthienyl)diazoalkanes, and some observations on their photochemical reactivity and ring inversion 1718–23
ELECTROLYSIS
Polyfluorobicyclo[2.2.1]heptanes. Part 11. Bridgehead radicals: their generation, reactions, and CIDNP effects, 217–20
ELECTROPHILE
Chain-extension reactions of acetylenes. Part 4. Reaction of 1,3-dilithioacetylides with carbonyl electrophiles, hexamethylphosph-

ELECTROPHILE(contd)
oric triamide, and benzylideneaniline, 2338–45
α-(4,6-Diphenyl-2-oxo-1-pyridyl)benzyllithiums and their reactions with electrophiles, 2851–5
ELECTROPHILIC
Heterocyclic compounds with bridgehead nitrogen atoms. Part 8. The synthesis and properties of cyclopenta[4,5]azepino[7,1,2-cd]pyrrolizine (cyclopenta[h][2.2.4]cyclazine), 1324–30
Preparation and some reactions of 2-oxatricyclo[3.3.0.0^{4,6}]oct-7-en-3-one: synthesis of 9-deoxa-9,10-dehydroprostaglandin D_2, 2093–7
ELIMINATION
A new route to 5-substituted resorcinols and related systems, 170–5
Reaction of 1,3-dipoles with 3-pyrrolidino-2-benzopyran-1-one, 846–8
The influence of chain-branching on the steric outcome of some olefin-forming reactions, 1045–50
Pyrolytic elimination of hydrogen halide and halogen from 2,3-dihaloketones, 1299–305
Base catalyzed rearrangements involving ylide intermediates. Part 5. Thermal rearrangements of 3-dimethylaminohex-5-en-1-ynes, 1473–6
Reactions of spiro-indazoles containing keto-groups. Syntheses of benz[a]aceanthrylenes, naphth[2,1-a]aceanthrylenes, and fluoranthenes, 1944–9
Synthesis and ring expansion of 4-(2-dimethylaminoethyl)-4-methylnaphthalen-1(4H)-one and its 2,3-dihydro derivative and some reactions of the lactam products, 2380–2
Photobromination of carbohydrate derivatives. Part 5. Preparation and reactions of (5S)-1,2,3,4-tetra-O-acetyl-5-bromo-β-D-xylopyranose; a new type of 'double-headed' nucleoside, 2767–73
EMMONS
Further synthetic investigations in the eremophilane sesquiterpene group. Synthesis of (±)-isovalencenic acid, (±)-isovalencenol, and their (Z)-isomers, and experiments directed towards the synthesis of tessaric acid, 1752–5
ENAMIDE
Photocyclization of enamides. Part 14. Substituent effects in the photocyclization of N-α,β-unsaturated acylanilides, 197–202
Photocyclization of enamides. Part 15. Syntheses of the basic structures of corynoline and related alkaloids, 203–7
Photocyclization of enamides. Part 16. A new synthesis of clavines. The stereostructure of costaclavine, 208–11
Photocyclization of enamides. Part 17. Total synthesis of (±)-corynoline, (±)-12-hydroxycorynoline, and (±)-11-epicorynoline, 212–16
ENAMIDINE
Enamidines. Part 1. Synthesis of enamidines and dihydrotriazines by the reaction of organolithium and organomagnesium compounds with aromatic nitriles, 2392–7
ENAMINE
Addition reactions of heterocyclic compounds. Part 72. Dimethyl acetylenedicarboxylate with 1,2,6,7,8,9-hexahydropyrrolo[3,2,1-jk]carbazole, 535–9
Synthesis of 2-trifluoromethylcyclohexenones from 2,2,2-trifluoroethyl vinyl ketone, 1114–17
Enamine chemistry. Part 27. The effect of additional α- and β-heteroatoms on the p_π-conjugation and reactivity of enamines. Sub or super enamines?, 2383–6
The chemistry of o-phenylene diisothiocyanate. Part 2. Reactions with enamines, an ynamine and some reactive methylene compounds, 2587–90
Carbonyl transposition and regio- and stereo-specific syntheses of new alcohols, aminoalcohols, and ketones in the monoterpenoid 1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane, 2626–30
Polyhaloaromatic compounds. Part 44. Reactions of enamines with polyhalopyridines and their N-oxides, 2709–16
Catalytic and noncatalytic addition of aromatic amines to terminal acetylenes in the presence of mercury(II) chloride and acetate, 2732–7
ENE
Ene-type reactions involving transfer of acyl groups. Addition of 4-phenyl-1,2,4-triazoline-3,5-dione to various unsaturated compounds, 843–5
Polyfluoroalkyl derivatives of nitrogen. Part 49. Ene reactions of trifluoronitrosomethane: formation of N-trifluoromethylhydroxylamines, 1960–4
Synthetic studies in the α-kainic acid (2,3-trans,3,4-cis-2-carboxy-4-isopropenylpyrrolidin-3-ylacetic acid) series, 2542–8
ENLARGEMENT
Studies related to penicillins. Part 19. Alkylations of (3R-3-((1S,5R)-3-benzyl-7-oxo-4-oxa-2,6-diazabicyclo[3.2.0]hept-2-en-6-yl)-4,4-dimethylthietan-2-one, 388–94
Adamantane chemistry. Part 3. Abnormal hypoiodite reactions of 2-substituted adamantan-2-ols; synthetic routes to 4-oxahomo- and 2-oxaadamantanes, and 7-substituted-bicyclo[3.3.1]nonan-3-ols, 410–18
Reaction of benzo[c]cinnolinium-5-(N-acyl- and N-benzimidoimides) with diphenylcyclopropenone, 1147–9
Ring-expansion of carbocyclic β-ketoesters with acetylenic esters, 1245–50
Reactions of the sodium salts of some heterocyclic β-ketoesters with dimethyl acetylenedicarboxylate, 1251–6
Reactions of halomethanes in the vapor phase. Part 4. The reactions of imidazoles with chloroform at 500°C, and a comparison with their liquid-phase reactions with trichloroacetate ion or hexachloroacetone and base, 1427–30
Studies related to penicillins. Part 20. The mechanism of the rearrangement of methyl benzylpenicillinate to methyl benzylpenillonate, 2001–8
Synthesis and ring expansion of 4-(2-dimethylaminoethyl)-4-methylnaphthalen-1(4H)-one and its 2,3-dihydro derivative and some reactions of the lactam products, 2380–2
Novel conversions of benzo[b]thiophen-3(2H)-ones into 1,2-benzisothiazole and tetrahydro-1,2-benzothiazepin-5-one systems via sulfimide intermediates, 2830–4
ENOL
The photo-cycloaddition of enol ethers to benzene, 869–76
ENOLATE
Synthetic study on several eremophilane sesquiterpenes using a common intermediate, 963–77
Synthetic applications of N–N linked heterocycles. Part 8. Regiospecific synthesis of 4-(α-acylalkyl) pyridines by attack of lithium enolates of ketones γ to N-(2,6-dimethyl-4-oxopyridin-1-yl)pyridinium salts, 2458–62
ENOLIZATION
18-Substituted steroids. Part 7. Synthesis and structure of 11β,18-epoxy-3α,18,21-trihydroxy-5β-pregnan-20-one (3α,5β-tetrahydroaldosterone), 2818–29
ENONE
Intramolecular alkylation of phenols. Part 4. Base-catalyzed cyclization of phenolic enones. Scope and limitations, 1555–66
ENZYME
Studies of enzyme-mediated reactions. Part 13. Stereochemical course of the formation of histamine by decarboxylation of (2S)-histidine with enzymes from Clostridium welchii and Lactobacillus 30a, 43–51
On the chemistry of β-lactamase inhibition by 6β-bromopenicillanic acid, 2322–9
ENZYMIC
Studies of enzyme-mediated reactions. Part 12. Stereochemical course of the decarboxylation of (2S)-tyrosine to tyramine by microbial, mammalian, and plant systems, 31–42
EPICORYNOLINE
Photocyclization of enamides. Part 17. Total synthesis of (±)-corynoline, (±)-12-hydroxycorynoline, and (±)-11-epicorynoline, 212–16
EPIEBURNAMENINE
Synthetic approach to (±)-vincamine via cleavage of an α-diketone monothioacetal. Alternative synthesis of (±)-eburnamine, (±)-isoeburnamine, and (±)-eburnamenine, 457–61
EPIMINE
The S-alkylation of sulfides by an activated carbohydrate epimine under acidic catalysis: the formation of α-acetamido-sulfides. Part 4. Reactions with dithioacetals and monothioacetals, 540–52
EPISULFIDE
Chemistry of hop constituents. Part 42. The formation and characterization of sesquiterpene episulfides in the essential oil of hops, 311–13
Sulfur nitrides in organic chemistry. Part 8. Reaction of tetrasulfur tetranitride with Grignard reagents and organolithium compounds, 2417–21
EPISULFURATION
Chemistry of hop constituents. Part 42. The formation and characterization of sesquiterpene episulfides in the essential oil of hops, 311–13
EPOXIDE
Ring C aromatic steroids. Part 2. Rearrangement of 16α,17α-

EPOXIDE(contd)
epoxy- and 17α-hydroxy-5,7-dienes, 556–62
Ebenaceae extractives. Part 8. The structure of diosquinone and reactions of related quinone epoxides, 1161–4
Preparation of 2-arylmethylene-5-methylbenzo[b]thiophen-3(2H)-one 1-oxides, 1,1-dioxides, spiroepoxides, 1-oxide spiroepoxides, and 1,1-dioxide spiroepoxides, 1194–8
Synthesis of 3-hydroxy-2,3,4,5-tetrahydro-3-methyl[1]benzoxepins by ring-closure of isoprenyl terminal epoxides, 1820–5
Quinoline alkaloids. Part 20. Synthesis of ptelefolone and O-methylribaline. Ring closure of epoxides of 3-prenylquinolones, 2294–9
Studies on steroids. Part 47. Neighboring group effects. Part 1. Effect of α-hydroxy and acetoxy groups on the ring opening of steroidal 4,5-epoxides, 2503–6
Studies on steroids. Part 48. Neighboring group effects. Part 2. Effect of epoxide on the hydrolysis of adjacent acetate groups, 2507–10
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
EPOXIDN
Total synthesis of prostaglandin-$F_{2\alpha}$ involving stereocontrolled and photo-induced reactions of bicyclo[3.2.0]heptanones, 852–7
Preparation of 2-arylmethylene-5-methylbenzo[b]thiophen-3(2H)-one 1-oxides, 1,1-dioxides, spiroepoxides, 1-oxide spiroepoxides, and 1,1-dioxide spiroepoxides, 1194–8
Microbiological transformations. Part 3. The oxidation of androstene derivatives with the fungus Cunninghamella elegans, 2535–41
Reactions of androsta-3,5-dienes with m-chloroperbenzoic acid, 2581–6
EPOXY
Epoxy ring opening reactions of endo- and exo-3,4-epoxy-6-azabicyclo[3.2.0]heptan-7-ones, 690–2
Diisophorone and related compounds. Part 5. 2,7-Epoxydiisophoranes: oxirane cleavage by perchloric acid, 733–7
Calciferol and its relatives. Part 25. A chemical degradation of 3α-hydroxycholest-9(11)-ene to des-AB-cholestane derivatives, 892–6
Studies related to anthracyclines. Part 1. Some Diels–Alder reactions of 4a,9a-epoxy-4a,9a-dihydroanthracene-1,4,9,10-tetrone, 1007–12
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
EPOXYANTHRACENETETRONE
Studies related to anthracyclines. Part 1. Some Diels–Alder reactions of 4a,9a-epoxy-4a,9a-dihydroanthracene-1,4,9,10-tetrone, 1007–12
EPOXYCHOLESTADIENONE
Calciferol and its relatives. Part 25. A chemical degradation of 3α-hydroxycholest-9(11)-ene to des-AB-cholestane derivatives, 892–6
EPOXYCINNAMATE
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
EPOXYDIISOPHORANONE
Diisophorone and related compounds. Part 5. 2,7-Epoxydiisophoranes: oxirane cleavage by perchloric acid, 733–7
EPOXYHYDROXY
Efficient synthesis of a pregnane-type steroid. Total synthesis of (+)-5α-dihydropregnenolone [(+)-3β-hydroxy-5α-pregnan-20-one], 2805–7
EPOXYHYDROXYANDROSTANONE
Efficient synthesis of a pregnane-type steroid. Total synthesis of (+)-5α-dihydropregnenolone [(+)-3β-hydroxy-5α-pregnan-20-one], 2805–7
EPOXYIPREGNADIENONE
Ring C aromatic steroids. Part 2. Rearrangement of 16α,17α-epoxy- and 17α-hydroxy-5,7-dienes, 556–62
EPOXYMETHYL
Acid-catalyzed reactions of 1α,2α-epoxy-1β-methyl- and 1α-hydroxy-1β-methyl 5α-steroids, 440–3
EPOXYMETHYLANDROSTANEDIOL
Acid-catalyzed reactions of 1α,2α-epoxy-1β-methyl- and 1α-hydroxy-1β-methyl 5α-steroids, 440–3
EPOXYNORCAFESTANONE
Synthetic studies on terpenoids. Part 24. Stereocontrolled synthesis of 3aβ-H,3bα-H,5aα-H,9aα-H,11aβ-H-9bβ-methylperhydrophenanthro[2,1-b]furan-7-one, an intermediate to epoxynorcafestanone, 2511–15
EPOXYTRIHYDROXYOXAWITHADIENOLIDE
Acid-catalyzed dehydration of withanolide E, a 14α,17β,20α$_F$-trihydroxy steroid; a revision, 531–4
EPOXYTRIHYDROXYPREGNANONE
18-Substituted steroids. Part 7. Synthesis and structure of 11β,18-epoxy-3α,18,21-trihydroxy-5β-pregnan-20-one (3α,5β-tetrahydroaldosterone), 2818–29
EQUIV
Photochemical deoxygenation of an α-ketol: the dihydroflavonol–flavanone conversion, 1003–6
EREMOPHILANE
Synthetic study on several eremophilane sesquiterpenes using a common intermediate, 963–77
EREMOPHILONE
Synthetic study on several eremophilane sesquiterpenes using a common intermediate, 963–77
ERGOSTADIENOL
Chromyl halide oxidation of steroid alkenes, 639–42
ERIOCARPIN
7β,8β-Epoxycardenolide glycosides of Asclepias eriocarpa, 2169–73
ESCHENMOSER
Efficient synthesis of a pregnane-type steroid. Total synthesis of (+)-5α-dihydropregnenolone [(+)-3β-hydroxy-5α-pregnan-20-one], 2805–7
ESCHERICHIA
Bacteriostatic activity of fluoro analogs of 5-(2-hydroxyethyl)-4-methylthiazole, a metabolic intermediate in the biosynthesis of thiamine, 2026–8
ESR
Nitrosation and nitrosylation of hemoproteins and related compounds. Part 4. Pentacoordinate nitrosylprotoheme as the pigment of cooked cured meat. Direct evidence from ESR spectroscopy, 1706–10
ESTER
Nitrosation and nitrosylation of hemoproteins and related compounds. Part 3. Attack at the vinyl groups of protoporphyrin dimethyl ester. X-ray analysis of 8^1(E)-8^2-nitroprotoporphyrin dimethyl ester, 490–4
Mechanism and stereochemistry of conjugate reduction of enones from gibberellins A_3 and A_7, 877–84
The structure of bonellin and its derivatives. Unique physiologically active chlorins from the marine echurian Bonellia viridis, 1080–9
Bicyclic heterocycles with nitrogen at the ring junction. Part 2. Application of the Dakin–West reaction to the synthesis of imidazo[5,1-f]-1,2,4-triazin-4(3H)-ones, 1139–46
The dealkylation of phosphate and phosphonate esters by iodotrimethylsilane: a mild and selective procedure, 1150–3
Synthesis of 3-(polyacetoxyalkyl)pyrroles from 3-aminocrotonic esters and open-chain sugar nitro olefins, 1199–205
Calciferol and its relatives. Part 28. A stereoselective synthesis of 1α-hydroxyprecalciferol$_3$ from (8-hydroxymethyl)des-AB-cholest-8-ene, 1405–6
Chemistry of quinones. Part 6. The selective hydrolysis of α-acetoxyanthraquinones and related compounds by trifluoroacetic acid containing small amounts of water, 1592–4
Synthesis, absolute configuration, and circular dichroism of the enantiomers of fluorosuccinic acid, 2029–32
Purines, pyrimidines, and imidazoles. Part 54. Interconversion of some intermediates in the de novo biosynthesis of purine nucleotides, 2316–21
Inhibitors of pyrimidine biosynthesis. Part 1. Synthesis of potential transition-state analogs of aspartate transcarbamylase, 2721–7
Photobromination of carbohydrate derivatives. Part 4. Observations on some glucopyranoside esters; a simple route to aryl α-L-idopyranosides, 2762–7
ESTRADIENONE
Preparation and acid-catalyzed rearrangements of a steroidal 1,4-quinol, 1679–81
ESTRADIOL
A stereoselective total synthesis of 17-O-acetyl-14α-hydroxy-3-O-methyl-11-oxoestradiol-17β, 2793–6
ESTRATRIENE
Preparation and acid-catalyzed rearrangements of a steroidal 1,4-quinol, 1679–81
ETHANOL
Ebenaceae extractives. Part 8. The structure of diosquinone and reactions of related quinone epoxides, 1161–4

ETHANOLYSIS
Reactions between 3-nitrochromone and diazo alkanes; Michael additions catalyzed by diazo alkanes as nitrogen bases, 2049–53
ETHENE
Heterocyclic polyfluoro-compounds. Part 33. Photochemical oxetane formation from fluoro ketones and perfluoro aldehydes and 1,2-difluoroethylene, 2258–67
ETHER
Partially fluorinated heterocyclic compounds. Part 12. Novel internal Diels–Alder adducts via Claisen rearrangement intermediates from tetrafluoro-4- and -3-pyridyl prop-2-enyl ethers. Syntheses of tetrafluoro-3-aza- and -4-aza-tricyclo[3.3.-1.0^{2,7}]non-3-en-6-one, 102–6
Reaction between 1,1-dilithioalkyl phenyl sulfones and ω-bromo esters. Synthesis of cyclic vinyl ethers, 260–3
The formation of complexes between aza-derivatives of crown ethers and primary alkylammonium salts. Part 6. Bis(mono-aza)crown ethers, 586–600
The photo-cycloaddition of enol ethers to benzene, 869–76
Photochemical reactions of benzene derivatives with electron-donor ethylenes, 1218–24
Intramolecular photocycloaddition reactions of phenyl-vinyl bichromophoric systems, 1761–8
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 13. A novel synthesis of benzyl ethers, 2184–90
Studies in the xanthone series. Part 13. Structural and synthetic studies on toxyloxanthone B, 2353–7
The chemistry of nitrilium salts. Part 1. Acylation of phenols and phenol ethers with nitriles and trifluoromethanesulfonic acid, 2894–900
ETHOXY
Synthesis of ethyl 3-bromo-2-ethoxy-2-(4-hydroxybenzoyloxy)propionate and attempts at cyclization. A correction, 2691–2
ETHOXYCARBONYL
Synthetic approach to (±)-vincamine via cleavage of an α-diketone monothioacetal. Alternative synthesis of (±)-eburnamine, (±)-isoeburnamine, and (±)-eburnamenine, 457–61
ETHOXYCARBONYLAMINOMETHYL
v-Triazolo[4,5-d]pyrimidines (8-azapurines). Part 22. Synthesis of 2-amino- and 2-oxo-derivatives of N-alkyl-1,6-dihydro-8-azapurines from the corresponding 4-amino-5-aminomethyl-1,2,3-triazoles, 2918–22
ETHOXYMETHYLENEMALONATE
The preparation of derivatives containing the imidazo[2,1-b]thiazine and 1,2,4-triazolo[3,2-b][1,3]thiazine systems, 1352–5
ETHYL
The preparation of derivatives containing the imidazo[2,1-b]thiazine and 1,2,4-triazolo[3,2-b][1,3]thiazine systems, 1352–5
Synthesis of ethyl 3-bromo-2-ethoxy-2-(4-hydroxybenzoyloxy)propionate and attempts at cyclization. A correction, 2691–2
Alkyltrifluoromethanesulfonates as alkylating reagents for aromatic compounds, 2887–94
ETHYLAMINOTHIAZOLOAZEPINE
Synthesis and photolysis of azidobenzo[b]thiophenes, -benzothiazoles, -benzimidazoles, and -indazoles: novel 6,7-diaminobenzothiazoles, -benzimidazoles, and -indazoles and 6-diethylamino-8H-thiazolo[5,4-c]azepines, 2362–70
ETHYLENE
The photoaddition of ethylenic hydrocarbons to benzene, 55–71
Mechanism of the formation of ethylene bis(dimethyldithiocarbamate) from tetramethylthiuram monosulfide and sodium 2-hydroxyethanethiolate, 1724–5
Heterocyclic polyfluoro compounds. Part 32. Photochemical reactions of 3-chlorotetrafluoro- and 3,5-dichlorotrifluoropyridines with olefins, and their photoreduction, 2520–2
ETHYLENEDIOXYCYCLOPENTENYL
Synthesis of 2,4-diazabicyclo[3.3.0]octane-3,7-diones and 3-thioxo-2,4-diazabicyclo[3.3.0]octan-7-one by an intramolecular Michael-type reaction. Stability of 2,4-diaza-, 4-oxa-2-aza-, and 4-thia-2-aza-bicyclo[3.3.0]octane-3,7-diones, 2497–502
ETHYLENEDIOXYCYCLOPENTENYLOCTYLUREA
Synthesis of 2,4-diazabicyclo[3.3.0]octane-3,7-diones and 3-thioxo-2,4-diazabicyclo[3.3.0]octan-7-one by an intramolecular Michael-type reaction. Stability of 2,4-diaza-, 4-oxa-2-aza-, and 4-thia-2-aza-bicyclo[3.3.0]octane-3,7-diones, 2497–502
ETHYLENEDIOXYCYCLOPENTENYLUREA
Synthesis of 2,4-diazabicyclo[3.3.0]octane-3,7-diones and 3-thioxo-2,4-diazabicyclo[3.3.0]octan-7-one by an intramolecular Michael-type reaction. Stability of 2,4-diaza-, 4-oxa-2-aza-, and 4-thia-2-aza-bicyclo[3.3.0]octane-3,7-diones, 2497–502
ETHYLHEXAHYDROMETHYL
The synthesis of 4-ethyl-3,3a,10,11,12,12a-hexahydro-12-methyl-2H-furo[3',2':5,6]pyrido[3,4-a]carbazol-2-yl methyl ketone. Structure of subincanine, 1290–3
ETHYLHEXAHYDROMETHYLFUROPYRIDOCARBAZOLYL
The synthesis of 4-ethyl-3,3a,10,11,12,12a-hexahydro-12-methyl-2H-furo[3',2':5,6]pyrido[3,4-a]carbazol-2-yl methyl ketone. Structure of subincanine, 1290–3
ETHYLPHOSPHINE
Chemistry of O-alkyl selenoesters. Reaction with triethylphosphine 1627–34
ETHYLPORPHYRIN
Meso-substitution reactions of rhodium(III)-octaethylporphyrins with organolithium reagents, 1641–5
ETHYLSODIOPHOSPHONATE
New olefin and oxirane syntheses from carbonyl compounds, and diethyl sodiophosphonate anions and 1-aminophosphonate amino-anions, 1731–8
ETHYNYLBENZALDEHYDE
The reactions of 2-alkynylbenzaldehydes with hydrazides: a route to isoquinoline N-imines, 1331–4
EVERNITROSE
Branched-chain sugars. Part 10. Some approaches to the synthesis of L-evernitrose (2,3,6-trideoxy-3-C,4-O-dimethyl-3-nitro-L-arabinohexopyranose), 2054–60
Branched-chain sugars. Part 11. An approach to the synthesis of D-evernitrose via the addition of iodine azide to a C-methylene sugar, 2061–4
EXO
o-Quinonoid compounds. Part 17. Evidence for exo-selectivity in the 1,5-sigmatropy of acyl and vinyl groups, 1909–15
EXPANSION
2-Imidazolines. Part 2. Pyrolysis of 1-acyl-4,5-diamino-4,5-dihydroimidazoles: a novel pyrimidine synthesis, 722–7
Stereospecific transformations of steroidal 2,3-aziridines into substituted amino thiols and ring-A fused heterocycles, 766–74
Reaction of 1,3-dipoles with 3-pyrrolidino-2-benzopyran-1-one, 846–8
Photolytic conversion of some bicyclo[3.2.0]heptanones into 3-hydroxy- or 3-methoxy-2-oxabicyclo[3.3.0]octan-2-ones, 1583–6
Reactions between 3-nitrochromone and diazo alkanes; Michael additions catalyzed by diazo alkanes as nitrogen bases, 2049–53
Steric effects in the ring expansion of coumarins by 2-diazopropane and tert-butyldiazomethane, 2937–42
EXPLOSION
The reactions of some tetrahydro-β-carbolines, of hexahydroazepino[3,4-b]indoles, and of tetrahydrocarbazolones with arenesulfonyl azides, 1512–15
Sulfur nitrides in organic chemistry. Part 8. Reaction of tetrasulfur tetranitride with Grignard reagents and organolithium compounds, 2417–21
Synthesis and reactions of 1,6-diaryl-2,5-bis(diazo)-1,3,4,6-tetraoxohexanes, 2670–7
EXTRUSION
Ene-type reactions involving transfer of acyl groups. Addition of 4-phenyl-1,2,4-triazoline-3,5-dione to various unsaturated compounds, 843–5
F2
Total synthesis of prostaglandin-$F_{2\alpha}$ involving stereocontrolled and photo-induced reactions of bicyclo[3.2.0]heptanones, 852–7
FENCHONE
Removal of thioacetal protecting groups by benzeneseleninic anhydride, 1654–7
FENOTHRIN
Pyrethroid photochemistry: mechanistic aspects in reactions of the (dihalovinyl)cyclopropanecarboxylate substituent, 728–32
FENVALERATE
Pyrethroid photochemistry: mechanistic aspects in reactions of the (dihalovinyl)cyclopropanecarboxylate substituent, 728–32
FERROCENYL
Stable carbocations. Part 22. Stereochemistry of the deprotonation of ferrocenylalkylium ions, and of the protonation of alkenylferrocenes, 2213–17
FERROCENYLALKENE
Stable carbocations. Part 22. Stereochemistry of the deprotonation of ferrocenylalkylium ions, and of the protonation of alkenylferr-

FERROCENYLALKENE(contd)
ocenes, 2213–17
FERROCENYLALKYLIUM
Stable carbocations. Part 22. Stereochemistry of the deprotonation of ferrocenylalkylium ions, and of the protonation of alkenylferrocenes, 2213–17
FISSION
Light-induced reactions of heteroaryl N–methylanilinomethyl ketones: formation of 3–heteroaryl–1–phenylazetidin–3–ols, 2371–3
FLASH
The thermolysis of polyazapentadienes. Part 1. 1,5–Diaryl–1,2,5–triaza derivatives, 2200–4
FLAVANOID
Novel α–methyldeoxybenzoins from the heartwood of Pterocarpus angolensis D.C.: absolute configuration and conformation of the first sesquiterpenylangolensins, and x–ray crystal structure of 4–O–α–cadinylangolensin, 2179–83
FLAVANOLIGNAN
Benzodioxanes by oxidative phenol coupling. Synthesis of silybin, 775–8
FLAVANONE
Cycloaddition reactions of isonitrosoflavanone esters with Schiff bases and with heteroaromatic rings, 354–61
Photochemical deoxygenation of an α–ketol: the dihydroflavonol–flavanone conversion, 1003–6
Base–catalyzed acyloin rearrangements: the first synthesis of 4–arylflavan–3–ones via chalcone epoxides, 1025–8
FLAVONOID
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
FLAVONONE
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
FLUORANTHENE
Polycyclic fluoroaromatic compounds. Part 9. Preparation and some reactions of decafluorofluoranthene, 1726–30
Reactions of spiro–indazoles containing keto–groups. Syntheses of benz[a]aceanthrylenes, naphth[2,1–a]aceanthrylenes, and fluoranthenes, 1944–9
FLUORENE
Base catalyzed rearrangements involving ylide intermediates. Part 4. [1,3]Sigmatropic rearrangements of 4–dimethylaminobutenes and [3,3]sigmatropic rearrangements of 3–dimethylaminohexa–1,5–dienes, 1462–72
FLUORENECARBOXYLIC
Synthetic studies toward complex diterpenoids. Part 11. Stereochemically defined synthesis of the racemates of 1,2,3,4,4a,9a–hexahydro–7–methoxy–1–methylfluorene–1–carboxylic acid, 804–8
FLUORENOL
Photoinduced reduction of fluoren–9–ol and its acetate by aliphatic amines, 2613–16
FLUORIDE
Reactions involving fluoride ion. Part 18. Derivatives of perfluoro cycloalkenes, 429–34
Chromyl halide oxidation of steroid alkenes, 639–42
Synthesis and reactions of azidobenzothiazoles and –benzo[b]thiophenes. Novel thiazolo[4,5–g]benzoxazoles and dihydrothieno[3,2–g]benzoxazoles, 2358–61
The preparation of primary alkyl and benzyl fluorides from the corresponding primary amines, 2901–3
FLUORINATION
Fluorination of trichlormethiazide with fluoroxytrifluoromethane, 712–13
Fluorinations with complex metal fluorides. Part 5. Fluorination of nitriles over cesium tetrafluorocobaltate(III), 1507–11
Polycyclic fluoroaromatic compounds. Part 9. Preparation and some reactions of decafluorofluoranthene, 1726–30
Bacteriostatic activity of fluoro analogs of 5–(2–hydroxyethyl)–4–methylthiazole, a metabolic intermediate in the biosynthesis of thiamine, 2026–8
Synthesis, absolute configuration, and circular dichroism of the enantiomers of fluorosuccinic acid, 2029–32
FLUORINE
Reactions involving fluoride ion. Part 19. Observable perfluorocycloalkyl anions, 435–9
N–Halo compounds. Part 7. Synthesis and iodine–catalyzed rearrangement to 6–chloroimino–1–azacyclohexadienes of 4–substituted 2–(dichloroamino)–3,5,6–trifluoropyridines, 817–21
Studies on steroids. Part 48. Neighboring group effects. Part 2. Effect of epoxide on the hydrolysis of adjacent acetate groups, 2507–10
FLUORO
Partially fluorinated heterocyclic compounds. Part 12. Novel internal Diels–Alder adducts via Claisen rearrangement intermediates from tetrafluoro–4– and –3–pyridyl prop–2–enyl ethers. Syntheses of tetrafluoro–3–aza– and –4–aza–tricyclo[5.3.–1.0^{2,7}]non–3–en–6–one, 102–6
Fluoro olefin chemistry. Part 12. Some reactions of 3,4–dihalotetrafluorocyclobutenes: a synthesis of perfluorocyclooctatetraene, 122–5
Polyfluorobicyclo[2.2.1]heptanes. Part 11. Bridgehead radicals: their generation, reactions, and CIDNP effects, 217–20
Cyclopropane chemistry. Part 4. The reactions of 1,2,2–trifluoroethylidene with alkenes and pyrolysis of the resulting cyclopropanes, 314–24
Chromyl halide oxidation of steroid alkenes, 639–42
Microbiological hydroxylation. Part 23. Hydroxylations of fluoro–5α–androstanones by the fungi Calonectria decora, Rhizopus nigricans, and Aspergillus ochraceus, 750–5
Excited state substitution and addition reactions of aryl fluorides with aliphatic amines, 1393–9
Bacteriostatic activity of fluoro analogs of 5–(2–hydroxyethyl)–4–methylthiazole, a metabolic intermediate in the biosynthesis of thiamine, 2026–8
Synthesis, absolute configuration, and circular dichroism of the enantiomers of fluorosuccinic acid, 2029–32
Heterocyclic polyfluoro–compounds. Part 33. Photochemical oxetane formation from fluoro ketones and perfluoro aldehydes and 1,2–difluoroethylene, 2258–67
Purines, pyrimidines and imidazoles. Part 53. Synthesis of some 5–halo analogs of metiamide and cimetidine, 2310–15
Synthesis and reactions of azidobenzothiazoles and –benzo[b]thiophenes. Novel thiazolo[4,5–g]benzoxazoles and dihydrothieno[3,2–g]benzoxazoles, 2358–61
Heterocyclic polyfluoro compounds. Part 32. Photochemical reactions of 3–chlorotetrafluoro– and 3,5–dichlorotrifluoropyridines with olefins, and their photoreduction, 2520–2
Condensation of αβ–unsaturated amines with perfluoroarenes, 2845–50
FLUOROACETONE
Nitroxide chemistry. Part 13. Reaction of NN–bis(trifluoromethyl)–amino–oxyl with hexafluoroisopropylideneimine and related compounds, 406–9
FLUOROALDEHYDE
Heterocyclic polyfluoro–compounds. Part 33. Photochemical oxetane formation from fluoro ketones and perfluoro aldehydes and 1,2–difluoroethylene, 2258–67
FLUOROALKYLATION
Studies on the organic fluorine compounds. Part 27. Abnormal reactions in the trifluoromethylation of aromatic compounds with trifluoromethyl iodide and copper powder, 661–4
FLUOROANDROSTANONE
Microbiological hydroxylation. Part 23. Hydroxylations of fluoro–5α–androstanones by the fungi Calonectria decora, Rhizopus nigricans, and Aspergillus ochraceus, 750–5
FLUOROARENE
Condensation of αβ–unsaturated amines with perfluoroarenes, 2845–50
FLUOROAZATRICYCLONONENONE
Partially fluorinated heterocyclic compounds. Part 12. Novel internal Diels–Alder adducts via Claisen rearrangement intermediates from tetrafluoro–4– and –3–pyridyl prop–2–enyl ethers. Syntheses of tetrafluoro–3–aza– and –4–aza–tricyclo[3.3.–1.0^{2,7}]non–3–en–6–one, 102–6
FLUOROBENZENE
The photocycloaddition of vinyl acetate to benzene and its simple derivatives: functionalization of the dihydrosemibullvalene skeleton, 1118–23
Excited state substitution and addition reactions of aryl fluorides with aliphatic amines, 1393–9
FLUOROBIACETYL
Heterocyclic polyfluoro compounds. Part 33. Competing 1,2– and 1,4–photochemical addition of hexafluorobiacetyl to 1,2–difluoroethylene, 2523–6
FLUOROBICYCLOHEPTANE
Polyfluorobicyclo[2.2.1]heptanes. Part 11. Bridgehead radicals:

FLUOROBICYCLOHEPTANE(contd)
their generation, reactions, and CIDNP effects, 217–20
FLUOROBICYCLOHEPTANECARBOXALDEHYDE
Polyfluorobicyclo[2.2.1]heptanes. Part 11. Bridgehead radicals: their generation, reactions, and CIDNP effects, 217–20
FLUOROBICYCLOHEPTANECARBOXYLATE
Polyfluorobicyclo[2.2.1]heptanes. Part 11. Bridgehead radicals: their generation, reactions, and CIDNP effects, 217–20
FLUOROCARBAZOLE
Condensation of αβ-unsaturated amines with perfluoroarenes, 2845–50
FLUOROCARBONYL
Heterocyclic polyfluoro-compounds. Part 33. Photochemical oxetane formation from fluoro ketones and perfluoro aldehydes and 1,2-difluoroethylene, 2258–67
FLUOROCOBALTATE
Fluorinations with complex metal fluorides. Part 5. Fluorination of nitriles over cesium tetrafluorocobaltate(III), 1507–11
FLUOROCYCLOALKENE
Reactions involving fluoride ion. Part 18. Derivatives of perfluoro cycloalkenes, 429–34
FLUOROCYCLOALKYL
Reactions involving fluoride ion. Part 19. Observable perfluorocycloalkyl anions, 435–9
FLUOROCYCLOBUTENE
Reactions involving fluoride ion. Part 17. Oligomers of perfluorocyclobutene, 426–8
FLUOROCYCLOPROPANE
Cyclopropane chemistry. Part 4. The reactions of 1,2,2-trifluoroethylidene with alkenes and pyrolysis of the resulting cyclopropanes, 314–24
FLUORODIMETHYLHEXENE
Reactions involving fluoride ion. Part 20. Competition between isomerization and nucleophilic attack on a perfluoroalkene, 1551–4
FLUOROERGOSTADIENOL
Chromyl halide oxidation of steroid alkenes, 639–42
FLUOROETHANOL
Chiroptical studies. Part 98. The short-wavelength circular dichroism of ketones in 2,2,2-trifluoroethanol, 1810–19
FLUOROETHENE
Heterocyclic polyfluoro-compounds. Part 33. Photochemical oxetane formation from fluoro ketones and perfluoro aldehydes and 1,2-difluoroethylene, 2258–67
FLUOROETHYLATION
Studies on the organic fluorine compounds. Part 27. Abnormal reactions in the trifluoromethylation of aromatic compounds with trifluoromethyl iodide and copper powder, 661–4
FLUOROETHYLENE
Heterocyclic polyfluoro compounds. Part 33. Competing 1,2- and 1,4-photochemical addition of hexafluorobiacetyl to 1,2-difluoroethylene, 2523–6
FLUOROETHYLIDENE
Cyclopropane chemistry. Part 4. The reactions of 1,2,2-trifluoroethylidene with alkenes and pyrolysis of the resulting cyclopropanes, 314–24
FLUOROETHYLMETHYLTHIAZOLE
Bacteriostatic activity of fluoro analogs of 5-(2-hydroxyethyl)-4-methylthiazole, a metabolic intermediate in the biosynthesis of thiamine, 2026–8
FLUOROHYDROXYANDROSTANONE
Microbiological hydroxylation. Part 23. Hydroxylations of fluoro-5α-androstanones by the fungi Calonectria decora, Rhizopus nigricans, and Aspergillus ochraceus, 750–5
FLUOROIODOCYCLOBUTENE
Fluoro olefin chemistry. Part 12. Some reactions of 3,4-dihalotetrafluorocyclobutenes: a synthesis of perfluorocyclooctatetraene, 122–5
FLUOROIODOMETHANE
Addition of free radicals to unsaturated systems. Part 23. Photochemical and thermal reactions of trifluoroiodomethane with but-2-ene and but-1-ene, 927–32
FLUOROISOPROPYLIDENEIMINE
Nitroxide chemistry. Part 13. Reaction of NN-bis(trifluoromethyl)-amino-oxyl with hexafluoroisopropylideneimine and related compounds, 406–9
FLUOROKETONE
Heterocyclic polyfluoro-compounds. Part 33. Photochemical oxetane formation from fluoro ketones and perfluoro aldehydes and 1,2-difluoroethylene, 2258–67
FLUOROMETHYL
Polyfluoroalkyl derivatives of nitrogen. Part 49. Ene reactions of trifluoronitrosomethane: formation of N-trifluoromethylhydroxylamines, 1960–4
Studies on organic fluorine compounds. Part 35. Trifluoromethylation of pyrimidine and purine nucleosides with trifluoromethyl-copper complex, 2755–62
FLUOROMETHYLAMINE
Polyfluoroalkyl derivatives of nitrogen. Part 44. The reactions of N-bromobis(trifluoromethyl)amine with open-chain 1,3-dienes and cyclohexene under ionic conditions, 372–7
FLUOROMETHYLATION
Studies on the organic fluorine compounds. Part 27. Abnormal reactions in the trifluoromethylation of aromatic compounds with trifluoromethyl iodide and copper powder, 661–4
Studies on organic fluorine compounds. Part 35. Trifluoromethylation of pyrimidine and purine nucleosides with trifluoromethyl-copper complex, 2755–62
FLUOROMETHYLBUTENE
Fluoro olefin chemistry. Part 13. A further route to perfluoro-2,3-dimethylbut-2-ene and the photochemical rearrangement of some perfluoroalkyl olefins, 487–9
FLUOROMETHYLDITHIETAN
Fluoro olefin chemistry. Part 13. A further route to perfluoro-2,3-dimethylbut-2-ene and the photochemical rearrangement of some perfluoroalkyl olefins, 487–9
FLUOROMETHYLPENTENE
Fluoro olefin chemistry. Part 13. A further route to perfluoro-2,3-dimethylbut-2-ene and the photochemical rearrangement of some perfluoroalkyl olefins, 487–9
FLUORONAPHTHYLLITHIUM
Polycyclic fluoroaromatic compounds. Part 10. Nucleophilic replacement of fluorine in heptafluoro-2-naphthyllithium, 2494–6
FLUORONITROBENZOTHIAZOLE
Synthesis and reactions of azidobenzothiazoles and -benzo[b]thiophenes. Novel thiazolo[4,5-g]benzoxazoles and dihydrothieno[3,2-g]benzoxazoles, 2358–61
FLUORONITROSOMETHANE
Polyfluoroalkyl derivatives of nitrogen. Part 49. Ene reactions of trifluoronitrosomethane: formation of N-trifluoromethylhydroxylamines, 1960–4
FLUOROPYRIDINE
Heterocyclic polyfluoro compounds. Part 29. 2:1 Adducts by photochemical addition of cycloalkenes to pentafluoropyridine, 129–31
The photoreactions of pyridine and 2-fluoropyridine with aliphatic amines, 2531–4
FLUOROPYRIDYL
Partially fluorinated heterocyclic compounds. Part 12. Novel internal Diels–Alder adducts via Claisen rearrangement intermediates from tetrafluoro-4- and -3-pyridyl prop-2-enyl ethers. Syntheses of tetrafluoro-3-aza- and -4-aza-tricyclo[3.3.1.0^{2,7}]non-3-en-6-one, 102–6
FLUOROPYRIDYLAZOTRIFLUOROPYRIDINE
N-Halo compounds. Part 7. Synthesis and iodine-catalyzed rearrangement to 6-chloroimino-1-azacyclohexadienes of 4-substituted 2-(dichloroamino)-3,5,6-trifluoropyridines, 817–21
FLUOROSUCCINATE
Synthesis, absolute configuration, and circular dichroism of the enantiomers of fluorosuccinic acid, 2029–32
FLUOROTRIAZINE
Heterocyclic polyfluoro-compounds. Part 32. Perfluoroalkylation of trifluoro-1,2,4-triazine, 2254–7
FLUOROVINYL
Synthesis of 2-trifluoromethylcyclohexenones from 2,2,2-trifluoroethyl vinyl ketone, 1114–17
FLUOROXYTRIFLUOROMETHANE
Fluorination of trichlormethiazide with fluoroxytrifluoromethane, 712–13
FOMES
Crystal structure and absolute configuration of a new sesquiterpenoid metabolite of Fomes annosus, 7α,8β,11-trihydroxydrimane, 2196–9
FORMALDEHYDE
Chain-extension reactions of acetylenes. Part 4. Reaction of 1,3-dilithioacetylides with carbonyl electrophiles, hexamethylphosphoric triamide, and benzylideneaniline, 2338–45

FORMATION
Studies of enzyme-mediated reactions. Part 13. Stereochemical course of the formation of histamine by decarboxylation of (2S)-histidine with enzymes from Clostridium welchii and Lactobacillus 30a, 43–51
Biosynthesis of bisdethiobis(methylthio)gliotoxin, a new metabolite of Gliocladium deliquescens, 119–21
New insights into polyketide metabolism; the use of protium as a tracer in the biosynthesis of citrinin by Penicillium citrinum, 2244–8
Purines, pyrimidines, and imidazoles. Part 54. Interconversion of some intermediates in the de novo biosynthesis of purine nucleotides, 2316–21
Biosynthesis of ascochitine and synthesis of its biogenetic precursors 2549–53
Studies in the biosynthesis of [6]-gingerol, pungent principle of ginger (Zingiber officinale), 2637–44
Biosynthesis of cochlioquinones, 2686–90
FORMYLATION
Formylation and acylation reactions catalyzed by trifluoromethanesulfonic acid, 181–6
Selective reactions between phenols and formaldehyde. A novel route to salicylaldehydes, 1862–5
Purines, pyrimidines, and imidazoles. Part 56. Some aminoimidazolecarboxamidines and derived adenines, 2728–31
FORMYLGLYCINEAMIDE
Purines, pyrimidines, and imidazoles. Part 54. Interconversion of some intermediates in the de novo biosynthesis of purine nucleotides, 2316–21
FRIEDEL
Friedel–Crafts reactions of some vinylsilanes, 2485–9
FRIES
Formation of 2,3-dihydro-4(1H)-quinolones and related compounds via Fries-type acid-catalyzed rearrangement of 1-arylazetidin-2-ones, 2105–11
FUKINONE
Synthetic study on several eremophilane sesquiterpenes using a common intermediate, 963–77
FUMARATE
Oxidation of enamine esters with lead tetraacetate. Part 1. Products from some N-alkylaminofumarates, 156–62
FURAN'
A simple and efficient total synthesis of the sesquiterpenes cuparene and iso-α-curcumene, from furan derivatives, 759–61
Photosensitized oxidation of furans. Part 1. Synthesis and properties of furan endo-peroxides, 1955–9
The photochemical cycloaddition of furan and benzene, 2174–8
The reaction of nitrosocarbonyl compounds with 2,5-disubstituted furans. Synthesis of 1,4,2-dioxazine and 1,4,2-dioxazole derivatives, 2408–16
Studies on the syntheses of heterocyclic compounds. Part 855. Cycloaddition reaction of bis(trimethylsilyl)allenedicarboxylate with homocyclic dienes, 2801–4
FURANCARBOXYLATE
Photosensitized oxidation of furans. Part 1. Synthesis and properties of furan endo-peroxides, 1955–9
FURANDICARBOXALDEHYDE
A new synthetic approach towards adriamycin, 643–7
FURANOEREMOPHILANE
Synthetic study on several eremophilane sesquiterpenes using a common intermediate, 963–77
FURANOEREMOPHILONE
Synthetic study on several eremophilane sesquiterpenes using a common intermediate, 963–77
FURANONE
Ene-type reactions involving transfer of acyl groups. Addition of 4-phenyl-1,2,4-triazoline-3,5-dione to various unsaturated compounds, 843–5
Synthesis and properties of 5-bromocyclohepta[b]furan-4-one, 2081–3
FURANOSE
Branched-chain sugars. Part 15. Synthesis of 1L-(1,2,3',4,5/3,6)-3-hydroxymethyl-4,5-O-isopropylidene-3,3'-O-methylene-6-nitro-2,3,4,5-tetrahydroxycyclohexenecarbaldehyde dimethyl acetal, a potential key compound for total synthesis of optically active tetrodotoxin, 14–19
FURODIOXAZINE
The reaction of nitrosocarbonyl compounds with 2,5-disubstituted furans. Synthesis of 1,4,2-dioxazine and 1,4,2-dioxazole derivatives, 2408–16
FUROFURANDIONE
Synthesis and reactions of 1,6-diaryl-2,5-bis(diazo)-1,3,4,6-tetraoxohexanes, 2670–7
FUROPYRIDINE
1,3-Dipolar character of six-membered aromatic rings. Part 52. 2π + 8π cycloaddition reactions of 1-substituted 3-oxidopyridinium betaines, 1176–84
FUROPYRIDOCARBAZOLYL
The synthesis of 4-ethyl-3,3a,10,11,12,12a-hexahydro-12-methyl-2H-furo[3',2':5,6]pyrido[3,4-a]carbazol-2-yl methyl ketone. Structure of subincanine, 1290–3
FUROQUINOLINE
Formation of 2,3-dihydro-4(1H)-quinolones and related compounds via Fries-type acid-catalyzed rearrangement of 1-arylazetidin-2-ones, 2105–11
FUROQUINOLINONE
Quinoline alkaloids. Part 20. Synthesis of ptelefolone and O-methylribaline. Ring closure of epoxides of 3-prenylquinolones, 2294–9
FURYLPHENYLAZETIDINOL
Light-induced reactions of heteroaryl N-methylanilinomethyl ketones: formation of 3-heteroaryl-1-phenylazetidin-3-ols, 2371–3
FUSARIUM
Isolation and structural elucidation of a novel sterol metabolite of Fusarium sporotrichioides 921, 2914–17
FUSED
Stereospecific transformations of steroidal 2,3-aziridines into substituted amino thiols and ring-A fused heterocycles, 766–74
Synthesis and properties of 5-bromocyclohepta[b]furan-4-one, 2081–3
GALACTOPYRANOSIDE
The allyl ether as a protecting group in carbohydrate chemistry. Part 11. The 3-methylbut-2-enyl ('prenyl') group, 738–40
GALLIC
Vesicant principles of poison ivy and related plants: synthesis of the urushiols, 1,2-dihydroxy-3-[(Z)-pentadec-8-enyl]benzene and 1,2-dihydroxy-3-pentadecylbenzene, 2331–7
GAMMA
Lithium ketene thioacetalides. Factors influencing α- versus γ-alkylation, 2678–82
GENERATION
Intramolecular alkylation of phenols. Part 5. A regiospecific anionic ring closure of phenols via quinone methides, 1567–77
GIBBERELLIN
Synthetic studies toward complex diterpenoids. Part 11. Stereochemically defined synthesis of the racemates of 1,2,3,4,4a,9a-hexahydro-7-methoxy-1-methylfluorene-1-carboxylic acid, 804–8
Mechanism and stereochemistry of conjugate reduction of enones from gibberellins A_3 and A_7, 877–84
Partial synthesis of gibberellin A_9 and [3α- and 3β-$^2H_1$]gibberellin A_9; gibberellin A_5 and [1β3-$^2H_2$ and -$^3H_2$] gibberellin A_5; and gibberellin A_{20} and [1β,3α-$^2H_2$ and -$^3H_2$]gibberellin A_{20}, 885–91
Rearrangement of the lactone ring of gibberellin A_3 in aqueous alkali; participation of the ionized 3-hydroxy group in an anti S_Ni' reaction, 2117–21
Synthetic studies towards complex diterpenoids. Part 13. Stereospecific synthesis of intermediates to the diterpene alkaloids and the C_{20}-gibberellins by a novel rearrangement of angularly fused cyclobutanones, 2881–6
GINGER
Studies in the biosynthesis of [6]-gingerol, pungent principle of ginger (Zingiber officinale), 2637–44
GINGEROL
Studies in the biosynthesis of [6]-gingerol, pungent principle of ginger (Zingiber officinale), 2637–44
GLIOCLADIUM
Biosynthesis of bisdethiobis(methylthio)gliotoxin, a new metabolite of Gliocladium deliquescens, 119–21
GLIOTOXIN
Biosynthesis of bisdethiobis(methylthio)gliotoxin, a new metabolite of Gliocladium deliquescens, 119–21
GLUCONOLACTONE
Photobromination of carbohydrate derivatives. Part 4. Observations on some glucopyranoside esters; a simple route to aryl α-L-idopyranosides, 2762–7

GLUCOPYRANOSE
Photobromination of carbohydrate derivatives. Part 2. Penta-O-acetyl-β-D-glucopyranose; the 5-bromo derivative and products of further bromination, 1523–7
Unsaturated carbohydrates. Part 22. Alkenes from 5-bromohexopyranose derivatives, 1535–9
Syntheses of 1- and 6-S- and 1- and 6-Se-derivatives of 2-amino-2-deoxy-α/β-D-glucopyranose, 2287–93
GLUCOPYRANOSIDE
Photobromination of carbohydrate derivatives. Part 3. C-5 bromination of penta-O-benzoyl-α- and -β-D-glucopyranose; a route to D-xylohexos-5-ulose derivatives and α-L-idopyranosides, 1528–34
Photobromination of carbohydrate derivatives. Part 4. Observations on some glucopyranoside esters; a simple route to aryl α-L-idopyranosides, 2762–7
GLUCOPYRANOSYL
Syntheses of 1- and 6-S- and 1- and 6-Se-derivatives of 2-amino-2-deoxy-α/β-D-glucopyranose, 2287–93
GLUCOSAMINE
Syntheses of 1- and 6-S- and 1- and 6-Se-derivatives of 2-amino-2-deoxy-α/β-D-glucopyranose, 2287–93
GLUCOSE
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 14. A useful radical-deamination reaction, 2657–64
GLUTAMATE
Isoxazole amino-acids as glutamic acid agonists. Synthesis of some analogs and homologs of ibotenic acid, 1826–33
GLUTARATE
Nitrogen bridgehead compounds. Part 6. Ring transformation. Part 3. Thermal cyclization of diethyl 2-(2-pyridylaminomethylene)succinates and -glutarates, 227–32
GLYCAL
Photobromination of carbohydrate derivatives. Part 5. Preparation and reactions of (5S)-1,2,3,4-tetra-O-acetyl-5-bromo-β-D-xylopyranose; a new type of 'double-headed' nucleoside, 2767–73
GLYCERALDEHYDE
Preparation of sugars with branched chains, a methylene bridge, or C-1-phenyl substituents by the Ramirez dioxaphosphole condensation, 1262–6
Pyranoside derivatives of 3-deoxyaldi-2-ulosonic acids, 1971–7
GLYCEROL
A possible model for a new chiral glyceride synthesis. Part 2. Synthesis of 1,3-di-O-aroyl- and 1-O-aroyl-3-O-tosyl-sn-glycerols from 2,5-O-methylene D-mannitol, 1–6
Synthesis of 3-O-(6-deoxy-6-sulfo-α-D-glucopyranosyl)-1,2-di-O-hexadecanoyl-L-glycerol, sulfoquinovosyl diglyceride, 2490–3
GLYCOLIPID
Synthesis of 3-O-(6-deoxy-6-sulfo-α-D-glucopyranosyl)-1,2-di-O-hexadecanoyl-L-glycerol, sulfoquinovosyl diglyceride, 2490–3
GLYCOSIDAL
Conversion of thiocarbonyl compounds into their corresponding oxo-derivatives using benzeneseleninic anhydride, 1650–3
GLYCOSIDE
The photochemistry of ketones derived from carbohydrates. Part 9. Formation of O- and C-ribofuranoside derivatives by photodecarbonylation of O- and C-glycosides of lyxo-hexopyranos-4-ulose derivatives, 779–86
Branched-chain sugars. 9. Characterization of the stereoisomeric methyl 3-deoxy-3-C-methyl-3-nitropentopyranosides resulting from the condensation of nitroethane with L'-methoxydiglycoaldehyde and the x-ray crystal structure of methyl 2,4-di-O-acetyl-3-deoxy-3-C-methyl-3-nitro-β-D-xylopyranoside, 995–1002
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 12. A study of cyclic iminocarbonates, 1124–31
Preparation of sugars with branched chains, a methylene bridge, or C-1-phenyl substituents by the Ramirez dioxaphosphole condensation, 1262–6
Stereochemistry of the hexosulose in cardenolide glycosides of the Asclepiadaceae, 2162–8
7β,8β-Epoxycardenolide glycosides of Asclepias eriocarpa, 2169–73
Synthesis of the pyranoisoflavonoid, heminitidulan. Isoflavanoid and rotenoid glycosides from the bark of Dalbergia nitidula Welw. ex Bak, 2463–9
GLYCOSYL
Synthetic C-glycosyl nucleosides. A new approach, 2683–5
GLYOXAL
Isomerism and lead(IV) acetate oxidation reactions of p-substituted phenylosazones of some substituted glyoxals and 1,2-diketones. Reactions of metallic acetates with nitrogen compounds. Part 5, 744–9
GLYOXIMATO
Formation of allyl and cyclopropylcarbinyl sulfides in the regiospecific reactions of arenesulfenyl chlorides with allyl- and but-3-enylcobaloximes, 2021–5
GOMPHOSIDE
Stereochemistry of the hexosulose in cardenolide glycosides of the Asclepiadaceae, 2162–8
GOVANINE
Studies on tetrahydroisoquinolines. Part 15. Lead tetraacetate oxidation of four hydroxytetrahydroprotoberberines, (±)-govanine, (±)-discretine, (±)-corytencine, and (±)-10-hydroxy-2,3,11-trimethoxytetrahydroprotoberberine, 1169–75
GRANDIFLORENATE
Terpenoids. Part 8. Partial syntheses of ent-11β-, 12α-, and 12β-hydroxykaur-16-en-19-oic acids from grandiflorenic acid, 1270–8
Terpenoids. Part 9. 10α → 9α-Methyl migration in derivatives of grandiflorenic acid, 1279–82
GRIGNARD
Mesoionic compounds. Part 10. A study of the reactions of 3-(3-pyridyl)sydnone with some nucleophilic reagents, 20–6
Reactions of conjugated arylazocycloalkenes with Grignard reagents. Part 3. A convenient synthesis of 2,6-diaryl- and 2-alkyl-6-arylcyclohexanones, 240–3
Methods for the construction of linear 1,7-diarylheptanoids; synthesis of di-O-methylcentrolobol and precursors (synthetic and biosynthetic) to the meta,meta-bridged biphenyls myricanol and myricanone, 614–22
Reactions of coordinated ligands. Part 8. Reaction of Grignard reagents with 2-alkoxy-1,3-dioxolanes; an improved route to aldehydes, 756–8
Sulfur nitrides in organic chemistry. Part 8. Reaction of tetrasulfur tetranitride with Grignard reagents and organolithium compounds, 2417–21
Synthetic applications of N–N linked heterocycles. Part 7. The preparation of 4-alkyl- and 4-aryl-pyridines by regiospecific attack of Grignard reagents γ to quaternary nitrogen in N-(2,6-dimethyl-4-oxopyridin-1-yl)pyridinium salts, 2480–4
Mechanism of diol formation in the reaction of benzylic Grignard reagents with aldehydes, 2631–6
GROUP
The allyl ether as a protecting group in carbohydrate chemistry. Part 11. The 3-methylbut-2-enyl ('prenyl') group, 738–40
Oxidation of ketone and aldehyde hydrazones, oximes and semicarbazones, and of hydroxylamines, and hydrazo-compounds, using benzeneseleninic anhydride, 1212–17
Studies on steroids. Part 47. Neighboring group effects. Part 1. Effect of α-hydroxy and acetoxy groups on the ring opening of steroidal 4,5-epoxides, 2503–6
Studies on steroids. Part 48. Neighboring group effects. Part 2. Effect of epoxide on the hydrolysis of adjacent acetate groups, 2507–10
HALIDE
Metal-assisted reactions. Part 8. Selectivity in the reaction of organic halides with tetrahydroborate and the reduction of acyl halides to aldehydes, 27–30
Chromyl halide oxidation of steroid alkenes, 639–42
Pyrolytic elimination of hydrogen halide and halogen from 2,3-dihaloketones, 1299–305
HALO
Partially fluorinated heterocyclic compounds. Part 12. Novel internal Diels–Alder adducts via Claisen rearrangement intermediates from tetrafluoro-4- and -3-pyridyl prop-2-enyl ethers. Syntheses of tetrafluoro-3-aza- and -4-aza-tricyclo[3.3.-1.0^{2,7}]non-3-en-6-one, 102–6
Polyhaloaromatic compounds. Part 41. Photochemical dehalogenation and arylation reactions of polyhaloaromatic and polyhaloheteroaromatic compounds, 648–56
1,3-Dipolar character of six-membered aromatic rings. Part 52. 2π + 8π cycloaddition reactions of 1-substituted 3-oxidopyridinium betaines, 1176–84
Homolytic reaction of N-halosulfoximides with olefins and toluene 1257–61
Polyfluoroalkyl derivatives of nitrogen. Part 48. The addition of N-haloamines $(CF_3)_2NX$ to cyclohexa-1,3- and -1,4-dienes; a new synthesis of NN-bis(trifluoromethyl)aniline, 1544–50

HALO(contd)
Polyhalogenoaromatic compounds. Part 43. Inter- and intra-molecular reactions of polychloroaromatic compounds with copper, 1682–7
HALOALKANE
Metal-catalyzed organic photoreactions. Evidence for the long-range electron-transfer mechanism in the uranyl- or iron(III)-catalyzed photoreactions of olefins, 947–9
HALOAROMATIC
Polyhaloaromatic compounds. Part 41. Photochemical dehalogenation and arylation reactions of polyhaloaromatic and polyhaloheteroaromatic compounds, 648–56
HALOBENZENE
Polyhaloaromatic compounds. Part 41. Photochemical dehalogenation and arylation reactions of polyhaloaromatic and polyhaloheteroaromatic compounds, 648–56
HALOBISTRIFLUOROMETHYLAMINE
Polyfluoroalkyl derivatives of nitrogen. Part 48. The addition of N-haloamines $(CF_3)_2NX$ to cyclohexa-1,3- and -1,4-dienes; a new synthesis of NN-bis(trifluoromethyl)aniline, 1544–50
HALOCHALCONE
Pyrolytic elimination of hydrogen halide and halogen from 2,3-dihaloketones, 1299–305
HALOGEN
Free radical reactions of halogenated bridged polycyclic compounds. Part 18. The addition of chlorine and bromine to 1,2,3,4,7,7-hexachloro-5-methylnorbornadiene, 302–5
Arbuzov reaction of alkyl and silyl phosphites with halogens involving four- and five-coordinate intermediates, 833–6
Pyrolytic elimination of hydrogen halide and halogen from 2,3-dihaloketones, 1299–305
HALOGENATION
Pyrazolo[3,4-b]pyridines. The preparation of 1-protected-1H-pyrazolo[3,4-b]pyridines and attempts to remove the 1-substituent. Some reactions of 1-benzyl-1H-pyrazolo[3,4-b]pyridine and its 7-oxide, 938–42
Homolytic reaction of N-halosulfoximides with olefins and toluene 1257–61
Purines, pyrimidines and imidazoles. Part 53. Synthesis of some 5-halo analogs of metiamide and cimetidine, 2310–15
HALOIMIDAZOLYLMETHANOL
Purines, pyrimidines and imidazoles. Part 53. Synthesis of some 5-halo analogs of metiamide and cimetidine, 2310–15
HALOLACTONIZATION
Studies on the syntheses of heterocyclic compounds. Part 855. Cycloaddition reaction of bis(trimethylsilyl)allenedicarboxylate with homocyclic dienes, 2801–4
HALONAPHTHYLBENZAMIDE
Electrochemical reactions. Part 23. Intramolecular radical substitution during the reduction of 2-halo-N-methyl-N-naphthylbenzamides, 657–60
HALOPYRIDINE
Polyhaloaromatic compounds. Part 42. Carbon-13 NMR spectra of polyhalopyridines and pyrimidines, 1370–80
Polyhaloaromatic compounds. Part 44. Reactions of enamines with polyhalopyridines and their N-oxides, 2709–16
HALOSULFOXIMIDE
Homolytic reaction of N-halosulfoximides with olefins and toluene 1257–61
HAPTEN
Artificial carbohydrate antigens: synthesis of rhamnose trisaccharide and disaccharide haptens common to Shigella flexneri O-antigens, 297–301
HEMIACETAL
A general and practicable synthesis of polycyclic heteroaromatic compounds. Part 1. Use of a putative quinolone-quinone-methide in the synthesis of polycyclic heteroaromatic compounds 512–21
A general and practicable synthesis of polycyclic heteroaromatic compounds. Part 2. Reaction of quinone-methides of pyridones, pyrimidines, coumarin, and benzene with aromatic amines in a novel synthesis of polycyclic heteroaromatic compounds, 522–8
HEMINIGERONE
Structural elucidation of the nigerones, four new naphthopyrones from cultures of Aspergillus niger, 2474–9
HEMINITIDULAN
Synthesis of the pyranoisoflavonoid, heminitidulan. Isoflavanoid and rotenoid glycosides from the bark of Dalbergia nitidula Welw. ex Bak, 2463–9
HEPTADECAHEXENDIYNONE
Synthesis and properties of a trimethyltetradehydro[17]annulenone and its benzannelated derivatives, 473–80
HEPTADECENONE
Synthesis and properties of a trimethyltetradehydro[17]annulenone and its benzannelated derivatives, 473–80
HEPTAFLUORO
Polycyclic fluoroaromatic compounds. Part 10. Nucleophilic replacement of fluorine in heptafluoro-2-naphthyllithium, 2494–6
HEPTAFLUORONAPHTHYLLITHIUM
Polycyclic fluoroaromatic compounds. Part 10. Nucleophilic replacement of fluorine in heptafluoro-2-naphthyllithium, 2494–6
HEPTANOID
Methods for the construction of linear 1,7-diarylheptanoids; synthesis of di-O-methylcentrolobol and precursors (synthetic and biosynthetic) to the meta,meta-bridged biphenyls myricanol and myricanone, 614–22
Total syntheses of the meta,meta-bridged biphenyls (±)-myricanol and myricanone, and of an isomeric biphenyl ether, a 14-oxa[7,1]metaparacyclophane, 623–8
HETEROAROM
A general and practicable synthesis of polycyclic heteroaromatic compounds. Part 1. Use of a putative quinolone-quinone-methide in the synthesis of polycyclic heteroaromatic compounds 512–21
A general and practicable synthesis of polycyclic heteroaromatic compounds. Part 2. Reaction of quinone-methides of pyridones, pyrimidines, coumarin, and benzene with aromatic amines in a novel synthesis of polycyclic heteroaromatic compounds, 522–8
Reductive deamination of primary amines, 2554–60
HETEROCYCLE
New steroidal heterocycles: the synthesis and structure of androsteno[2,3-g]-, androstano[3,2-f]-, and androsteno[16,17-g]pyrazolo[1,5-a]pyrimidines, 481–6
Ring opening or rearrangement versus N-oxidation in the action of peracids upon pyrrolo[2,3-b]pyridines, pyrrolo[2,3-b]pyrazines, and triazolo[1,5-a-]- and triazolo[4,3-a]pyrazine. Some chemical and spectroscopic properties of the triazolopyrazines and their N-oxides, 506–11
Polymeric proanthocyanidins. Stereochemistry, structural units, and molecular weight, 2278–86
HEXADECANOYLGLYCEROL
Synthesis of 3-O-(6-deoxy-6-sulfo-α-D-glucopyranosyl)-1,2-di-O-hexadecanoyl-L-glycerol, sulfoquinovosyl diglyceride, 2490–3
HEXADIENE
Base catalyzed rearrangements involving ylide intermediates. Part 4. [1,3]Sigmatropic rearrangements of 4-dimethylaminobutenes and [3,3]sigmatropic rearrangements of 3-dimethylaminohexa-1,5-dienes, 1462–72
HEXAHYDRODIMETHYLMETHANO
Synthesis and some reactions of 3,4,5,6-tetrahydro-3,6-dimethyl-2,6-methano-3-benzazocin-1(2H)-one (2,5-dimethyl-8-oxo-6,7-benzomorphan), 2374–9
HEXAHYDRODIMETHYLMETHANOBENZODIAZONINONE
Synthesis and some reactions of 3,4,5,6-tetrahydro-3,6-dimethyl-2,6-methano-3-benzazocin-1(2H)-one (2,5-dimethyl-8-oxo-6,7-benzomorphan), 2374–9
HEXAHYDROPYRROLOCARBAZOLE
Addition reactions of heterocyclic compounds. Part 72. Dimethyl acetylenedicarboxylate with 1,2,6,7,8,9-hexahydropyrrolo[3,2,1-jk]carbazole, 535–9
HEXANOATE
Regio- and stereospecific synthesis in threo-3-amino-2-hydroxy acids, novel amino acids contained in aminopeptidase inhibitors of microbial origin, 1618–21
HEXENE
Reactions involving fluoride ion. Part 20. Competition between isomerization and nucleophilic attack on a perfluoroalkene, 1551–4
HEXODIULOSEPYRANOSE
The photochemistry of ketones derived from carbohydrates. Part 8. Type I cleavage of 1,2:4,5-di-O-isopropylidene-β-D-erythro-2,3-hexodiulose-2,6-pyranose: a synthesis of D-ribulose from D-fructose, 277–81
HEXOPYRANOSIDE
Branched-chain sugars. Part 11. An approach to the synthesis of D-

HEXOPYRANOSIDE(contd)
evernitrose via the addition of iodine azide to a C-methylene sugar, 2061–4
HEXOPYRANOSULOSE
The photochemistry of ketones derived from carbohydrates. Part 9. Formation of O- and C-ribofuranoside derivatives by photodecarbonylation of O- and C-glycosides of lyxo-hexopyranos-4-ulose derivatives, 779–86
HEXOSULOSE
Photobromination of carbohydrate derivatives. Part 3. C-5 bromination of penta-O-benzoyl-α- and -β-D-glucopyranose; a route to D-xylohexos-5-ulose derivatives and α-L-idopyranosides, 1528–34
Stereochemistry of the hexosulose in cardenolide glycosides of the Asclepiadaceae, 2162–8
HIBISCONE
Naturally occurring quinones. Part 27. Sesquiterpenoid quinones and related compounds from Hibiscus elatus: crystal structure of hibiscone C (gmelofuran), 249–56
Naturally occurring quinones. Part 28. Sesquiterpenoid quinones and related compounds from Hibiscus tiliaceus, 257–9
HIBISCOQUINONE
Naturally occurring quinones. Part 27. Sesquiterpenoid quinones and related compounds from Hibiscus elatus: crystal structure of hibiscone C (gmelofuran), 249–56
Naturally occurring quinones. Part 28. Sesquiterpenoid quinones and related compounds from Hibiscus tiliaceus, 257–9
HIBISCUS
Naturally occurring quinones. Part 27. Sesquiterpenoid quinones and related compounds from Hibiscus elatus: crystal structure of hibiscone C (gmelofuran), 249–56
Naturally occurring quinones. Part 28. Sesquiterpenoid quinones and related compounds from Hibiscus tiliaceus, 257–9
HINDERED
The synthesis and reactions of sterically constrained pyrylium and pyridinium salts, 1895–900
HINDRANCE
Spirans. Part 13. The synthesis and orientation of spirans related to Abel's ketone (naphtho[2,1-b]furan-2(1H)-spiro-1'(2'H)-naphthalen-2'-one), 1986–93
HISTAMINE
Studies of enzyme-mediated reactions. Part 13. Stereochemical course of the formation of histamine by decarboxylation of (2S)-histidine with enzymes from Clostridium welchii and Lactobacillus 30a, 43–51
Purines, pyrimidines and imidazoles. Part 53. Synthesis of some 5-halo analogs of metiamide and cimetidine, 2310–15
HISTIDINE
Studies of enzyme-mediated reactions. Part 13. Stereochemical course of the formation of histamine by decarboxylation of (2S)-histidine with enzymes from Clostridium welchii and Lactobacillus 30a, 43–51
HMPT
Chain-extension reactions of acetylenes. Part 4. Reaction of 1,3-dilithioacetylides with carbonyl electrophiles, hexamethylphosphoric triamide, and benzylideneaniline, 2338–45
HOFMANN
Synthesis and ring expansion of 4-(2-dimethylaminoethyl)-4-methylnaphthalen-1(4H)-one and its 2,3-dihydro derivative and some reactions of the lactam products, 2380–2
HOMOCONJUGATE
Conjugate, homoconjugate, and 1,2-additions of acetylene nucleophiles and their application to prostaglandin synthesis, 2346–52
HOMOLOG
Isoxazole amino-acids as glutamic acid agonists. Synthesis of some analogs and homologs of ibotenic acid, 1826–33
HOMOLOGATION
The conversion of aldehydes and ketones via their 2,4,6-triisopropylbenzenesulfonyl hydrazones into nitriles containing one additional carbon atom, 1487–92
HOMOLYTIC
Homolytic reaction of N-halosulfoximides with olefins and toluene 1257–61
The thermolysis of N-phenyl-N'-sulfinylhydrazine: an interesting source of phenyl radicals, 1901–3
HOP
Chemistry of hop constituents. Part 42. The formation and characterization of sesquiterpene episulfides in the essential oil of hops, 311–13
HORNER
Polymer-supported phosphonates. Olefins from aldehydes, ketones, and dioxolanes by means of polymer-supported phosphonates, 2516–19
HUMAN
Tritiated peptides. Part 8. Synthesis of [3,5-$^3H_2$-Tyr^2]-, [4-^{3}H-Phe^7]-, and [3,5-$^3H_2$-Tyr^{23}]-human corticotropin, 462–5
HUMULENE
Chemistry of hop constituents. Part 42. The formation and characterization of sesquiterpene episulfides in the essential oil of hops, 311–13
HYDANTOIN
Heterocyclic prostaglandin analogs. Part 2. Hydantoins and other imidazole analogs, 495–505
HYDRATION
v-Triazolo[4,5-d]pyrimidines (8-azapurines). Part 22. Synthesis of 2-amino- and 2-oxo-derivatives of N-alkyl-1,6-dihydro-8-azapurines from the corresponding 4-amino-5-aminomethyl-1,2,3-triazoles, 2918–22
HYDRAZENOTHIO
β-Lactam antibiotics. Part 2. New methods of cyclizing hydrazinothioazetidinones to cephem ring systems, 233–6
HYDRAZIDE
Oxidation of ketone and aldehyde hydrazones, oximes and semicarbazones, and of hydroxylamines, and hydrazo-compounds, using benzeneseleninic anhydride, 1212–17
Benzocyclobutenes. Part 4. Synthesis of benzocyclobutene-1,2-diones by pyrolytic methods, 1834–40
HYDRAZIDINE
Bicyclic heterocycles with nitrogen at the ring junction. Part 2. Application of the Dakin–West reaction to the synthesis of imidazo[5,1-f]-1,2,4-triazin-4(3H)-ones, 1139–46
HYDRAZINE
Conversion of pyridines and quinolines into pyridazines and pyrazoles, 72–7
HYDRAZINO
A novel hydrazino-transfer reaction to a saturated carbon: direct conversion of substituted acetophenone and aliphatic ketone 4-nitrophenylhydrazones into 1,2-bishydrazones. Reactions of mercury(II) acetate with nitrogen compounds. Part 6, 2218–21
HYDRAZINOLYSIS
Derivatives of 3H-1,2,3-triazolo[4,5-d][1,3]thiazine, a new heterocyclic nucleus. Some shifts of a methylene group from a nitrogen to a sulfur atom, 2009–12
HYDRAZINOTHIOAZETIDINONE
β-Lactam antibiotics. Part 2. New methods of cyclizing hydrazinothioazetidinones to cephem ring systems, 233–6
HYDRAZONE
Heterocyclic compounds. Part 6. Synthesis of 1,3,4-thiadiazolidines from the reactions of phenyl hydrazones with phenyl isothiocyanate and carbon disulfide, 574–8
Oxidation of ketone and aldehyde hydrazones, oximes and semicarbazones, and of hydroxylamines, and hydrazo-compounds, using benzeneseleninic anhydride, 1212–17
The reactions of 2-alkynylbenzaldehydes with hydrazides: a route to isoquinoline N-imines, 1331–4
HYDRIDE
Heterocycles in organic synthesis. Part 13. The reaction of 2,4-diphenylthiopyrylium perchlorate with amines, 1345–6
HYDROBERBERINE
Reaction of protoberberine-type alkaloids. Part 12. A facile method for regiospecific oxygenation and excited oxidative ring-cleavage of berberine alkaloids, 911–18
HYDROBORATION
Carbonyl transposition and regio- and stereo-specific syntheses of new alcohols, aminoalcohols, and ketones in the monoterpenoid 1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane, 2626–30
HYDROCARBON
The photoaddition of ethylenic hydrocarbons to benzene, 55–71
Addition reactions of benzo[b]thiophene. Part 1. Self-addition and addition of simple aromatic hydrocarbons, 677–85
On the mechanism of the meta photocycloaddition of ethylenes to benzenoid compounds, 1314–18
HYDROCHLORIDE
Syntheses of 1- and 6-S- and 1- and 6-Se-derivatives of 2-amino-2-deoxy-α/β-D-glucopyranose, 2287–93
HYDROCORALYNE
Reaction of protoberberine-type alkaloids. Part 12. A facile method

HYDROCORALYNE(contd)
for regiospecific oxygenation and excited oxidative ring-cleavage of berberine alkaloids, 911–18
HYDRODIMETHYLMETHANOBENZAZOCINONE
Synthesis and some reactions of 3,4,5,6-tetrahydro-3,6-dimethyl-2,6-methano-3-benzazocin-1(2H)-one (2,5-dimethyl-8-oxo-6,7-benzomorphan), 2374–9
HYDROFLUORENE
Synthetic studies towards complex diterpenoids. Part 13. Stereospecific synthesis of intermediates to the diterpene alkaloids and the C_{20}-gibberellins by a novel rearrangement of angularly fused cyclobutanones, 2881–6
HYDROGEN
Pyrolytic elimination of hydrogen halide and halogen from 2,3-dihaloketones, 1299–305
Thermolysis of o-alkylnitrosobenzenes. Unusually ready [1,5] hydrogen shift involving a nitroso group, 1365–9
Coenzyme models. Part 23. Formation and reactivity of the stable "quinone form" of flavin in cationic polymer matrixes, 1622–5
Methylation study of ribonucleosides, deoxyribonucleosides, and 2'-O-methylribonucleosides with trimethylsulfonium hydroxide and trimethylsulfonium iodide. Influence of the 2'-hydroxy-groups on the reactivity of the base moieties of ribonucleosides, 2787–92
HYDROGENATION
Selective hydrogenation of 4,5-dihydro-1,3-oxazin-6-ones to carboxaldehyde derivatives; chemical differentiation between acylazetidin-2-ones and the corresponding isomeric oxazin-6-ones, 378–80
Selectivity in the hydrogenation of 6- and 8-substituted quinolines, 1933–9
HYDROGENOLYSIS
Examination of the stereochemistry of hydrogenolysis of steroidal C-3 substituents using deuterium NMR spectroscopy, 1381–3
HYDROLYSIS
Disproportionation in hydrolysis of pyrimido[4,5-b]quinoline-2(3H),4(10H)-diones (5-deazaflavins), 293–6
Synthetic approach to (±)-vincamine via cleavage of an α-diketone monothioacetal. Alternative synthesis of (±)-eburnamine, (±)-isoeburnamine, and (±)-eburnamenine, 457–61
Chemistry of quinones. Part 6. The selective hydrolysis of α-acetoxyanthraquinones and related compounds by trifluoroacetic acid containing small amounts of water, 1592–4
Reactions of 4-bromo-4-(1-hydroxypropyl)-2,6-di-tert-butylcyclohexa-2,5-dienone in methanolic sulfuric acid, 1595–8
Pyranoside derivatives of 3-deoxyald-2-ulosonic acids, 1971–7
Reactions between 3-nitrochromone and diazo alkanes; Michael additions catalyzed by diazo alkanes as nitrogen bases, 2049–53
Synthesis and some reactions of 3,4,5,6-tetrahydro-3,6-dimethyl-2,6-methano-3-benzazocin-1(2H)-one (2,5-dimethyl-8-oxo-6,7-benzomorphan), 2374–9
Polycyclic fluoroaromatic compounds. Part 10. Nucleophilic replacement of fluorine in heptafluoro-2-naphthyllithium, 2494–6
Studies on steroids. Part 48. Neighboring group effects. Part 2. Effect of epoxide on the hydrolysis of adjacent acetate groups, 2507–10
Polymer-supported phosphonates. Olefins from aldehydes, ketones, and dioxolanes by means of polymer-supported phosphonates, 2516–19
HYDROLYTIC
Disproportionation in hydrolysis of pyrimido[4,5-b]quinoline-2(3H),4(10H)-diones (5-deazaflavins), 293–6
HYDROMETHYLTHIENOBENZOXAZOLE
Synthesis and reactions of azidobenzothiazoles and -benzo[b]thiophenes. Novel thiazolo[4,5-g]benzoxazoles and dihydrothieno[3,2-g]benzoxazoles, 2358–61
HYDROPEROXIDE
Oxymetalation. Part 12. Further syntheses of monocyclic peroxides via peroxymercuriation, 2450–7
HYDROPYRAZINE
Nucleophilic displacement and spiro-complex formation in NN'-dimethyl-N-picrylethylenediamine, 2205–8
HYDROPYRIDINE
Reductive deamination of primary amines, 2554–60
HYDROTRIGOGENINE
Chromyl halide oxidation of steroid alkenes, 639–42
HYDROXAMATE
The reaction of nitrosocarbonyl compounds with 2,5-disubstituted furans. Synthesis of 1,4,2-dioxazine and 1,4,2-dioxazole derivatives, 2408–16
HYDROXIDE
Novel reagent system for converting a hydroxy-group into an iodo-group in carbohydrates with inversion of configuration. Part 2, 2866–9
HYDROXY
Photochemical cyclization of phthalimide Mannich bases, 93–6
Acetogenin synthesis. Organocopper reagents, anions of 1,3-dithianes and of protected cyanohydrins as intermediates in ketide side-chain synthesis, 136–40
Hydrogenation of cyclobutanes in strained cage compounds. Synthesis of ditwistane and bisnorditwistane (ditwistbrendane), 163–9
Epoxy ring opening reactions of endo- and exo-3,4-epoxy-6-azabicyclo[3.2.0]heptan-7-ones, 690–2
Microbiological hydroxylation. Part 23. Hydroxylations of fluoro-5α-androstanones by the fungi Calonectria decora, Rhizopus nigricans, and Aspergillus ochraceus, 750–5
Synthetic study on several eremophilane sesquiterpenes using a common intermediate, 963–77
Photochemical deoxygenation of an α-ketol: the dihydroflavonol-flavanone conversion, 1003–6
Terpenoids. Part 8. Partial syntheses of ent-11β-, 12α-, and 12β-hydroxykaur-16-en-19-oic acids from grandiflorenic acid, 1270–8
Calciferol and its relatives. Part 27. A synthesis of 1α-hydroxyvitamin D_3 by way of 1α-hydroxytachysterol$_3$, 1400–4
Calciferol and its relatives. Part 28. A stereoselective synthesis of 1α-hydroxyprecalciferol$_3$ from (8-hydroxymethyl)des-AB-cholest-8-ene, 1405–6
Pyrazines. Part 5. Preparation of 3,8-diazabicyclo[3.2.1]octane-2,4-dione derivatives, 1603–6
Regio- and stereospecific synthesis in threo-3-amino-2-hydroxy acids, novel amino acids contained in aminopeptidase inhibitors of microbial origin, 1618–21
Synthesis of 3-hydroxy-2,3,4,5-tetrahydro-3-methyl[1]benzoxepins by ring-closure of isoprenyl terminal epoxides, 1820–5
Benzocyclobutenes. Part 5. Synthesis of 4-hydroxy-, 4,5-dihydroxy-, and 3,6-dihydroxy-benzocyclobutene-1,2-dione (benzologs of semisquaric and squaric acid), 1841–6
Spirans. Part 13. The synthesis and orientation of spirans related to Abel's ketone (naphtho[2,1-b]furan-2(1H)-spiro-1'(2'H)-naphthalen-2'-one), 1986–93
Synthesis of N-hydroxymaleimide and N-hydroxyitaconimide and their related derivatives, 2122–5
Synthesis and reactions of tert-butyltellurocarbonyloxy alkanes, 2191–5
18-Substituted steroids. Part 5. Further studies on the synthesis of 11β,18,21-trihydroxypregn-4-ene-3,20-dione ('18-hydroxycorticosterone'), 2591–6
Synthesis of ethyl 3-bromo-2-ethoxy-2-(4-hydroxybenzoyloxy)propionate and attempts at cyclization. A correction, 2691–2
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
New dyes based on 3-arylbenzo- and naphtho-1,4-thiazines, 2923–32
HYDROXYARYLBENZYL
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
HYDROXYARYLBENZYLBENZOFURANONE
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
HYDROXYBENZOATE
Synthesis of ethyl 3-bromo-2-ethoxy-2-(4-hydroxybenzoyloxy)propionate and attempts at cyclization. A correction, 2691–2
HYDROXYBENZOCYCLOBUTENE
Benzocyclobutenes. Part 5. Synthesis of 4-hydroxy-, 4,5-dihydroxy-, and 3,6-dihydroxy-benzocyclobutene-1,2-dione (benzologs of semisquaric and squaric acid), 1841–6
HYDROXYBENZOIC
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
HYDROXYBENZOYL
Cycloaddition reactions of isonitrosoflavanone esters with Schiff bases and with heteroaromatic rings, 354–61
HYDROXYCARBAMATE
Studies on the preparation of N-alkyl-O-phenylhydroxylamines, 2781–6

HYDROXYCHLOROBENZOATE
Reactions of androsta-3,5-dienes with m-chloroperbenzoic acid, 2581–6
HYDROXYCHOLESTENE
Calciferol and its relatives. Part 25. A chemical degradation of 3α-hydroxycholest-9(11)-ene to des-AB-cholestane derivatives, 892–6
HYDROXYCORTICOSTERONE
18-Substituted steroids. Part 5. Further studies on the synthesis of 11β,18,21-trihydroxypregn-4-ene-3,20-dione ('18-hydroxycorticosterone'), 2591–6
HYDROXYCORYNOLINE
Photocyclization of enamides. Part 17. Total synthesis of (±)-corynoline, (±)-12-hydroxycorynoline, and (±)-11-epicorynoline, 212–16
HYDROXYCOUMARIN
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
HYDROXYCYCLOANDROSTANONE
The participation of 3,5-cyclosteroids in aromatization reactions, 1306–10
HYDROXYDIPHENYLPYRIDONE
N-Oxides and related compounds. Part 60. Novel thermal and photochemical rearrangements of N-substituted 2-pyridones, 2743–54
HYDROXYDRIMANE
Crystal structure and absolute configuration of a new sesquiterpenoid metabolite of Fomes annosus, 7α,8β,11-trihydroxydrimane, 2196–9
HYDROXYEREMOPHILONE
Synthetic study on several eremophilane sesquiterpenes using a common intermediate, 963–77
HYDROXYETHYL
Bacteriostatic activity of fluoro analogs of 5-(2-hydroxyethyl)-4-methylthiazole, a metabolic intermediate in the biosynthesis of thiamine, 2026–8
HYDROXYETHYLAMIDE
Studies of lysergic acid diethylamide and related compounds. Part 8. Structural identification of new metabolites of lysergic acid diethylamide obtained by microbial transformation using Streptomyces roseochromogenes, 902–5
HYDROXYETHYLMETHYLTHIAZOLE
Bacteriostatic activity of fluoro analogs of 5-(2-hydroxyethyl)-4-methylthiazole, a metabolic intermediate in the biosynthesis of thiamine, 2026–8
HYDROXYFLAVANONE
Photochemical deoxygenation of an α-ketol: the dihydroflavonol–flavanone conversion, 1003–6
HYDROXYIODOPHENYLNORBORNYLCARBOXYLIC
Product formation and identification in the reaction of 6-endo-hydroxy-5-exo-iodo-3-exo-phenylnorborn-2-endo-ylcarboxylic acid γ-lactone with silver toluene-p-sulfonate, 1578–82
HYDROXYKAURENOATE
Terpenoids. Part 8. Partial syntheses of ent-11β-, 12α-, and 12β-hydroxykaur-16-en-19-oic acids from grandiflorenic acid, 1270–8
HYDROXYL
The allyl ether as a protecting group in carbohydrate chemistry. Part 11. The 3-methylbut-2-enyl ('prenyl') group, 738–40
HYDROXYLAMINE
Polyfluoroalkyl derivatives of nitrogen. Part 49. Ene reactions of trifluoronitrosomethane: formation of N-trifluoromethylhydroxylamines, 1960–4
Studies on the preparation of N-alkyl-O-phenylhydroxylamines, 2781–6
HYDROXYLAMINIUM
Partial protection of carbohydrate derivatives. Part 4. Regioselective 2'-O-deacylation of fully acylated purine and pyrimidine ribonucleosides with hydroxylaminium acetate, 563–73
HYDROXYLATION
Photocyclization of enamides. Part 15. Syntheses of the basic structures of corynoline and related alkaloids, 203–7
Microbiological hydroxylation. Part 23. Hydroxylations of fluoro-5α-androstanones by the fungi Calonectria decora, Rhizopus nigricans, and Aspergillus ochraceus, 750–5
Crystal structure and absolute configuration of a new sesquiterpenoid metabolite of Fomes annosus, 7α,8β,11-trihydroxydrimane, 2196–9
HYDROXYMETHYL
A novel photochemical structural inversion: the first methoxy-hydroxymethyl isomerization, 1540–3
Synthesis of 3-hydroxy-2,3,4,5-tetrahydro-3-methyl[1]benzoxepins by ring-closure of isoprenyl terminal epoxides, 1820–5
HYDROXYMETHYLANDROSTANEDIOL
Acid-catalyzed reactions of 1α,2α-epoxy-1β-methyl- and 1α-hydroxy-1β-methyl 5α-steroids, 440–3
HYDROXYMETHYLBENZOPHENONE
The chemistry of fungi. Part 77. The synthesis of benzophenones from phthalides: x-ray crystallographic definition of a novel isobenzofuran system, 2445–9
HYDROXYMETHYLCHOLESTANONE
New steroidal heterocycles: the synthesis and structure of androsteno[2,3-g]-, androstano[3,2-f]-, and androsteno[16,17-g]pyrazolo[1,5-a]pyrimidines, 481–6
HYDROXYMETHYLDESCHOLESTENE
Calciferol and its relatives. Part 26. A conversion of cholesterol into 8-hydroxymethyl-des-AB-cholest-8-ene, 897–901
HYDROXYMETHYLENE
New steroidal heterocycles: the synthesis and structure of androsteno[2,3-g]-, androstano[3,2-f]-, and androsteno[16,17-g]pyrazolo[1,5-a]pyrimidines, 481–6
New steroidal heterocycles: synthesis and structure of androst-2-eno[2,3-g](tetrazolo[1,5-a]pyrimidines), androst-4-eno[3,2-f](tetrazolo[1,5-a]pyrimidine), and androstano[17,16-f](tetrazolo[1,5-a]pyrimidines), 1019–24
HYDROXYMETHYLENEANDROSTANONE
New steroidal heterocycles: the synthesis and structure of androsteno[2,3-g]-, androstano[3,2-f]-, and androsteno[16,17-g]pyrazolo[1,5-a]pyrimidines, 481–6
New steroidal heterocycles: androstano[3,2-b](pyrimido[1,2-a]benzimidazoles), 1859–61
HYDROXYMETHYLENECHOLESTANONE
New steroidal heterocycles: the synthesis and structure of androsteno[2,3-g]-, androstano[3,2-f]-, and androsteno[16,17-g]pyrazolo[1,5-a]pyrimidines, 481–6
HYDROXYMETHYLPHENYL
Electrochemical oxidation of aromatic ethers. Part 6. Oxidation of 4-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-methyl-1,2,3,4-tetrahydroisoquinoline and attempted synthesis of 4-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-methyl-1,4-dihydro-3(2H)-isoquinolone, 2013–20
HYDROXYMETHYLTETRACYCLODODECANEDIONE
Hydrogenation of cyclobutanes in strained cage compounds. Synthesis of ditwistane and bisnorditwistane (ditwistbrendane), 163–9
HYDROXYPENTADECYLBENZENE
Vesicant principles of poison ivy and related plants: synthesis of the urushiols, 1,2-dihydroxy-3-[(Z)-pentadec-8-enyl]benzene and 1,2-dihydroxy-3-pentadecylbenzene, 2331–7
HYDROXYPHENYL
Total syntheses of the meta,meta-bridged biphenyls (±)-myricanol and myricanone, and of an isomeric biphenyl ether, a 14-oxa[7,1]metaparacyclophane, 623–8
HYDROXYPHENYLCARBAMATE
Studies on the preparation of N-alkyl-O-phenylhydroxylamines, 2781–6
HYDROXYPHENYLHEPTANOID
Total syntheses of the meta,meta-bridged biphenyls (±)-myricanol and myricanone, and of an isomeric biphenyl ether, a 14-oxa[7,1]metaparacyclophane, 623–8
HYDROXYPRECALCIFEROL
Calciferol and its relatives. Part 28. A stereoselective synthesis of 1α-hydroxyprecalciferol, from (8-hydroxymethyl)des-AB-cholest-8-ene, 1405–6
HYDROXYPREGNANONE
18-Substituted steroids. Part 6. Synthesis of 3α,18-dihydroxy-11β,18-epoxy-5β-pregnan-20-one(21-deoxy-3α,5β-tetrahydroaldosterone), 2597–607
Efficient synthesis of a pregnane-type steroid. Total synthesis of (+)-5α-dihydropregnenolone [(+)-3β-hydroxy-5α-pregnan-20-one], 2805–7
HYDROXYPROPANONE
Some novel photochemical and related aryl couplings and

HYDROXYPROPANONE(contd)
migrations in flavonoid synthesis, 2856–65
HYDROXYPROPYL
Reactions of 4-bromo-4-(1-hydroxypropyl)-2,6-di-tert-butylcyclohexa-2,5-dienone in methanolic sulfuric acid, 1595–8
HYDROXYPYRAZINE
Pyrazines. Part 5. Preparation of 3,8-diazabicyclo[3.2.1]octane-2,4-dione derivatives, 1603–6
HYDROXYPYRROLYLMETHYLISOINDOLINONE
Photochemical cyclization of phthalimide Mannich bases, 93–6
HYDROXYTOLYLSULFONYLOXY
The solvolysis of 4β-hydroxy-3β-p-tolylsulfonyloxyandrost-5-enes, 933–7
HYDROXYTOLYLSULFONYLOXYANDROSTENE
The solvolysis of 4β-hydroxy-3β-p-tolylsulfonyloxyandrost-5-enes, 933–7
HYDROXYVITAMIN
Calciferol and its relatives. Part 27. A synthesis of 1α-hydroxyvitamin D_3 by way of 1α-hydroxytachysterol$_3$, 1400–4
HYPOCHLORITE
Cyano sugars. Part 4. Hypochlorite oxidation of branched-chain nitro sugars and conversion of the products into branched-chain cyano sugars, 126–8
HYPOIODITE
Adamantane chemistry. Part 3. Abnormal hypoiodite reactions of 2-substituted adamantan-2-ols; synthetic routes to 4-oxahomo- and 2-oxaadamantanes, and 7-substituted-bicyclo[3.3.1]nonan-3-ols, 410–18
HYPOXANTHINE
Purines, pyrimidines and imidazoles. Pasrt 52. New syntheses of some 1-β-D-arabinofuranosylaminoimidazoles and of related purine nucleosides, including 9-β-D-arabinofuranosyladenine, 2304–9
IBOTENIC
Isoxazole amino-acids as glutamic acid agonists. Synthesis of some analogs and homologs of ibotenic acid, 1826–33
IDOPYRANOSIDE
Photobromination of carbohydrate derivatives. Part 3. C-5 bromination of penta-O-benzoyl-α- and -β-D-glucopyranose; a route to D-xylohexos-5-ulose derivatives and α-L-idopyranosides, 1528–34
Photobromination of carbohydrate derivatives. Part 4. Observations on some glucopyranoside esters; a simple route to aryl α-L-idopyranosides, 2762–7
IDURONIDASE
Photobromination of carbohydrate derivatives. Part 4. Observations on some glucopyranoside esters; a simple route to aryl α-L-idopyranosides, 2762–7
II
Light-induced reactions of heteroaryl N-methylanilinomethyl ketones: formation of 3-heteroaryl-1-phenylazetidin-3-ols, 2371–3
IMIDAZOISOINDOLONE
Photochemical cyclization of phthalimide Mannich bases, 93–6
IMIDAZOLE
The reaction between cyanide ion and nitrones; a new imidazole synthesis, 244–8
Cycloaddition reactions of isonitrosoflavanone esters with Schiff bases and with heteroaromatic rings, 354–61
Heterocyclic prostaglandin analogs. Part 2. Hydantoins and other imidazole analogs, 495–505
2-Imidazolines. Part 2. Pyrolysis of 1-acyl-4,5-diamino-4,5-dihydroimidazoles: a novel pyrimidine synthesis, 722–7
Reactions of halomethanes in the vapor phase. Part 4. The reactions of imidazoles with chloroform at 500°C, and a comparison with their liquid-phase reactions with trichloroacetate ion or hexachloroacetone and base, 1427–30
'Le BOP' reagent and imidazole for selective O-acylation of trehalose, 1940–3
Purines, pyrimidines, and imidazoles. Part 56. Some aminoimidazolecarboxamidines and derived adenines, 2728–31
Novel reagent system for converting a hydroxy-group into an iodo-group in carbohydrates with inversion of configuration. Part 2, 2866–9
IMIDAZOLINE
Reactions of halomethanes in the vapor phase. Part 5. The reactions of imidazolines, anils, and 1-methylimidazole with chloroform at 550°C, and a comparison with their liquid-phase reactions with trichloroacetate ion or hexachloroacetone and base, 1431–5
Some reactions of vinylene diisothiocyanate, 2717–20
IMIDAZOLOTHIAZOLE
7-Alkylation and 7-sulfonylation of 5,6-dihydroimidazolo[2,1-b]thiazoles, 1773–8
IMIDAZOPYRIDINE
The nitration of imidazo[1,5-a]pyridines, 959–62
IMIDAZOPYRIDINIUMCARBOXYLATE
Diazaindenes (azaindoles). Part 7. Formation of imidazo[1,2-a]pyridinium-8-carboxylate in an attempt to prepare pyrrolo[2,3-b]pyridin-3-one, 132–5
IMIDAZOTHIAZINE
The chemistry of o-phenylene diisothiocyanate. Part 2. Reactions with enamines, an ynamine and some reactive methylene compounds, 2587–90
IMIDAZOTHIAZOLE
Steroidal heterocycles: synthesis and structure of imidazo[2,1-b]thiazolo-, thiazolo[3,2-a]benzimidazolo-, and thiazolo[3,2-b]-s-triazolo-derivatives, 2146–51
IMIDAZOTHIAZOLINE
Stereospecific transformations of steroidal 2,3-aziridines into substituted amino thiols and ring-A fused heterocycles, 766–74
IMIDAZOTRIAZINONE
Bicyclic heterocycles with nitrogen at the ring junction. Part 2. Application of the Dakin-West reaction to the synthesis of imidazo[5,1-f]-1,2,4-triazin-4(3H)-ones, 1139–46
IMIDOYLBENZOTRIAZINONE
1,2,3-Benzotriazin-4-ones and related systems. Part 6. Thermal and photolytic decomposition of 3-arylideneamino-, 3-imidoyl-, and 3-heteroaryl-1,2,3-benzotriazin-4-ones, 633–8
IMIDOYLOXYPYRIDONE
N-Oxides and related compounds. Part 60. Novel thermal and photochemical rearrangements of N-substituted 2-pyridones, 2743–54
IMINE
Cycloaddition reactions of isonitrosoflavanone esters with Schiff bases and with heteroaromatic rings, 354–61
Reaction of 1,3-dipoles with 3-pyrrolidino-2-benzopyran-1-one, 846–8
The reactions of 2-alkynylbenzaldehydes with hydrazides: a route to isoquinoline N-imines, 1331–4
Reaction of 6-bromobenzocyclohepten-5-one with amines, 2077–80
Asymmetric synthesis at nitrogen by oxidation of imines with m-chloroperbenzoic acid in the presence of optically active carbinols. Absolute stereochemistry of chiral alcohol-imine-peracid solvates, 2152–61
Catalytic and noncatalytic addition of aromatic amines to terminal acetylenes in the presence of mercury(II) chloride and acetate, 2732–7
IMINO
Isomerization of 2-aryl-4-oxo-2,3-dihydrobenzopyrano[2,3-d]pyrimidines to 2-aryl-4-hydroxy-5H-benzopyrano[2,3-d]pyrimidines, 1335–7
IMINOALKENONE
Preparation of 3-imino-2-en-1-ones from 2-aralkylisoxazolium salts, 1866–9
IMINOAZACYCLOHEXADIENE
N-Halo compounds. Part 7. Synthesis and iodine-catalyzed rearrangement to 6-chloroimino-1-azacyclohexadienes of 4-substituted 2-(dichloroamino)-3,5,6-trifluoropyridines, 817–21
IMINOCARBONATE
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 12. A study of cyclic iminocarbonates, 1124–31
INCORPORATION
Biosynthesis of aromatic isoprenoids. Part 5. The preparation of 1-(3,3-dimethylallyl)-L-tryptophan and cyclo-L-alanyl-1-(3,3-dimethyl-allyl)-L-tryptophan and their nonincorporation into echinulin, 1294–8
INDANONE
Pentacarbonyliron-promoted conversion of 3a,7a-dihydroindenones into indanones, 444–7
Electrocyclic reactions of protonated chalcones: synthesis of 3-arylindan-1-ones, 837–42
INDAZOLE
Reactions of spiro-indazoles containing keto-groups. Syntheses of benz[a]aceanthrylenes, naphth[2,1-a]aceanthrylenes, and fluoranthenes, 1944–9
Synthesis and photolysis of azidobenzo[b]thiophenes, -benzothiazoles, -benzimidazoles, and -indazoles: novel 6,7-diaminobenzot-

INDAZOLE(contd)
hiazoles, -benzimidazoles, and -indazoles and 6-diethylamino-8H-thiazolo[5,4-c]azepines, 2362–70
INDAZOLOBENZOTHIAZOLE
Competitive cyclizations of singlet and triplet nitrenes. Part 9. 2-(2-Nitrenophenyl)benzothiazoles and -benzimidazoles, 2387–91
INDENE
o-Quinonoid compounds. Part 16. 1,5-Shift of vinyl groups in 1,3-dimethylindenes; product studies and migratory aptitudes of substituted vinyl groups, 714–21
o-Quinonoid compounds. Part 17. Evidence for exo-selectivity in the 1,5-sigmatropy of acyl and vinyl groups, 1909–15
INDENONE
Pentacarbonyliron-promoted conversion of 3a,7a-dihydroindenones into indanones, 444–7
Reaction of monothio derivatives of 2-heteroarylideneindene-1,3(2H)-diones with quinones, 1070–5
INDOLE
Lewis-acid-induced electrophilic substitution in indoles with acetone. Part 2, 553–5
Cyanation using the combined reagent, triphenylphosphine–thiocyanogen (TPPT): a new general route to indole and pyrrole carbonitriles, 1132–5
INDOLINESPIROCYCLOPENTANE
The reactions of some tetrahydro-β-carbolines, of hexahydroazepino[3,4-b]indoles, and of tetrahydrocarbazolones with arenesulfonyl azides, 1512–15
INDOLINESPIROPIPERIDINE
The reactions of some tetrahydro-β-carbolines, of hexahydroazepino[3,4-b]indoles, and of tetrahydrocarbazolones with arenesulfonyl azides, 1512–15
INDOLINESPIROPYRROLIDINE
The reactions of some tetrahydro-β-carbolines, of hexahydroazepino[3,4-b]indoles, and of tetrahydrocarbazolones with arenesulfonyl azides, 1512–15
INDOLIZENOQUINONE
Reaction of monothio derivatives of 2-heteroarylideneindene-1,3(2H)-diones with quinones, 1070–5
INDOLIZINE
Addition reactions of heterocyclic compounds. Part 70. Formation of quinolizines and indolizines from nicotine derivatives and acetylenic esters, 78–80
INHIBITION
Heterocyclic prostaglandin analogs. Part 2. Hydantoins and other imidazole analogs, 495–505
On the chemistry of β-lactamase inhibition by 6β-bromopenicillanic acid, 2322–9
INHIBITOR
Isomerization of 2-aryl-4-oxo-2,3-dihydrobenzopyrano[2,3-d]pyrimidines to 2-aryl-4-hydroxy-5H-benzopyrano[2,3-d]pyrimidines, 1335–7
Total synthesis of β-lactamase inhibitors based on the 4-oxa-1-azabicyclo[3.2.0]heptan-7-one ring system, 2222–7
Specific enzyme inhibitors in vitamin biosynthesis. Part 3. The synthesis and inhibitory properties of some substrates and transition state analogs of riboflavin synthase, 2645–56
INSECTICIDE
Pyrethroid photochemistry: mechanistic aspects in reactions of the (dihalovinyl)cyclopropanecarboxylate substituent, 728–32
INSERTION
Reactions of halomethanes in the vapor phase. Part 4. The reactions of imidazoles with chloroform at 500°C, and a comparison with their liquid-phase reactions with trichloroacetate ion or hexachloroacetone and base, 1427–30
Reactions of halomethanes in the vapor phase. Part 5. The reactions of imidazolines, anils, and 1-methylimidazole with chloroform at 550°C, and a comparison with their liquid-phase reactions with trichloroacetate ion or hexachloroacetone and base, 1431–5
Heterocyclic polyfluoro compounds. Part 32. Photochemical reactions of 3-chlorotetrafluoro- and 3,5-dichlorotrifluoropyridines with olefins, and their photoreduction, 2520–2
Novel conversions of benzo[b]thiophen-3(2H)-ones into 1,2-benzisothiazole and tetrahydro-1,2-benzothiazepin-5-one systems via sulfimide intermediates, 2830–4
INSULIN
Amino acids and peptides. Part 44. Synthesis of protected peptides related to sequence 23–30 of bovine insulin B-chain, 2797–800
INTERACTION
Studies on steroids. Part 48. Neighboring group effects. Part 2. Effect of epoxide on the hydrolysis of adjacent acetate groups, 2507–10
INTERCONVERSION
Purines, pyrimidines, and imidazoles. Part 54. Interconversion of some intermediates in the de novo biosynthesis of purine nucleotides, 2316–21
INTERMEDIATE
A new synthetic approach towards adriamycin, 643–7
Synthetic studies toward complex diterpenoids. Part 11. Stereochemically defined synthesis of the racemates of 1,2,3,4,4a,9a-hexahydro-7-methoxy-1-methylfluorene-1-carboxylic acid, 804–8
Purines, pyrimidines, and imidazoles. Part 54. Interconversion of some intermediates in the de novo biosynthesis of purine nucleotides, 2316–21
Synthetic studies on terpenoids. Part 24. Stereocontrolled synthesis of 3aβ-H,3bα-H,5aα-H,9aα-H,11aβ-H-9bβ-methylperhydrophenanthro[2,1-b]furan-7-one, an intermediate to epoxynorcafestanone, 2511–15
Synthetic studies towards complex diterpenoids. Part 13. Stereospecific synthesis of intermediates to the diterpene alkaloids and the C_{20}-gibberellins by a novel rearrangement of angularly fused cyclobutanones, 2881–6
INTERMOL
Polyhalogenoaromatic compounds. Part 43. Inter- and intramolecular reactions of polychloroaromatic compounds with copper, 1682–7
INTRAMOL
Branched-chain sugars. Part 15. Synthesis of L-(1,2,3',4,5/3,6)-3-hydroxymethyl-4,5-O-isopropylidene-3,3'-O-methylene-6-nitro-2,3,4,5-tetrahydroxycyclohexenecarbaldehyde dimethyl acetal, a potential key compound for total synthesis of optically active tetrodotoxin, 14–19
Electrochemical reactions. Part 23. Intramolecular radical substitution during the reduction of 2-halo-N-methyl-N-naphthylbenzamides, 657–60
Structural studies of azacyclols derived from linear tripeptides, 809–16
Bicyclic heterocycles with nitrogen at the ring junction. Part 2. Application of the Dakin–West reaction to the synthesis of imidazo[5,1-f]-1,2,4-triazin-4(3H)-ones, 1139–46
Photochemistry of substituted cyclic enones. Part 2. 5-[Prop-2-enyl]cyclopentenones, 1516–22
Intramolecular alkylation of phenols. Part 5. A regiospecific anionic ring closure of phenols via quinone methides, 1567–77
Synthesis of 2,4-diazabicyclo[3.3.0]octane-3,7-diones and 3-thioxo-2,4-diazabicyclo[3.3.0]octan-7-one by an intramolecular Michael-type reaction. Stability of 2,4-diaza-, 4-oxa-2-aza-, and 4-thia-2-aza-bicyclo[3.3.0]octane-3,7-diones, 2497–502
INVERSION
The synthesis of 1H- and 5H-thieno[1,2]diazepines by the electrocyclization of α-(2-alkenylthienyl)diazoalkanes, and some observations on their photochemical reactivity and ring inversion 1718–23
Photobromination of carbohydrate derivatives. Part 4. Observations on some glucopyranoside esters; a simple route to aryl α-L-idopyranosides, 2762–7
Photobromination of carbohydrate derivatives. Part 5. Preparation and reactions of (5S)-1,2,3,4-tetra-O-acetyl-5-bromo-β-D-xylopyranose; a new type of 'double-headed' nucleoside, 2767–73
Novel reagent system for converting a hydroxy-group into an iodo-group in carbohydrates with inversion of configuration. Part 2, 2866–9
IODAMINE
Polyfluoroalkyl derivatives of nitrogen. Part 48. The addition of N-haloamines $(CF_3)_2NX$ to cyclohexa-1,3- and -1,4-dienes; a new synthesis of NN-bis(trifluoromethyl)aniline, 1544–50
IODIDE
Quinoline alkaloids. Part 19. Synthesis of O-methylptelefolonium iodide and (±)-dubinidine, 1136–8
Chemistry of O-alkyl selenoesters. Reaction with triethylphosphine 1627–34
IODINATION
Epoxy ring opening reactions of endo- and exo-3,4-epoxy-6-azabicyclo[3.2.0]heptan-7-ones, 690–2
Branched-chain sugars. Part 11. An approach to the synthesis of D-evernitrose via the addition of iodine azide to a C-methylene sugar, 2061–4
Novel reagent system for converting a hydroxy-group into an iodo-

IODINATION(contd)
group in carbohydrates with inversion of configuration. Part 2, 2866–9
IODINE
Acid–catalyzed rearrangement of bis–5,6–dihydro–4H–1,3–thiazin–2–yl and other disulfides and related reactions, 665–71
N–Halo compounds. Part 7. Synthesis and iodine–catalyzed rearrangement to 6–chloroimino–1–azacyclohexadienes of 4–substituted 2–(dichloroamino)–3,5,6–trifluoropyridines, 817–21
Novel reagent system for converting a hydroxy–group into an iodo–group in carbohydrates with inversion of configuration. Part 2, 2866–9
IODO
Fluoro olefin chemistry. Part 12. Some reactions of 3,4–dihalotetrafluorocyclobutenes: a synthesis of perfluorocyclooctatetraene, 122–5
IODOANDROSTENONE
Examination of the stereochemistry of hydrogenolysis of steroidal C–3 substituents using deuterium NMR spectroscopy, 1381–3
IODOBENZYL
The bacterial pigment from Pseudomonas lemonnieri. Part 1. Structure of a degradation product, 3–n–octanamidopyridine–2,5,6–trione, by x–ray crystallography, 1782–7
IODOCARBOHYDRATE
Novel reagent system for converting a hydroxy–group into an iodo–group in carbohydrates with inversion of configuration. Part 2, 2866–9
IODOCYCLOHEXANE
Oxidative displacement of hypervalent iodine from alkyl iodides, 822–7
IODOFLUOROMETHANE
Addition of free radicals to unsaturated systems. Part 23. Photochemical and thermal reactions of trifluoroiodomethane with but–2–ene and but–1–ene, 927–32
IODOIMIDAZOLE
Novel reagent system for converting a hydroxy–group into an iodo–group in carbohydrates with inversion of configuration. Part 2, 2866–9
IODOLACTONE
Product formation and identification in the reaction of 6–endo–hydroxy–5–exo–iodo–3–exo–phenylnorborn–2–endo–ylcarboxylic acid γ–lactone with silver toluene–p–sulfonate, 1578–82
IODOLACTONIC
Studies on the syntheses of heterocyclic compounds. Part 855. Cycloaddition reaction of bis(trimethylsilyl)allenedicarboxylate with homocyclic dienes, 2801–4
IODOTRIMETHYLSILANE
The dealkylation of phosphate and phosphonate esters by iodotrimethylsilane: a mild and selective procedure, 1150–3
ION
Metal–assisted reactions. Part 8. Selectivity in the reaction of organic halides with tetrahydroborate and the reduction of acyl halides to aldehydes, 27–30
The reaction between cyanide ion and nitrones; a new imidazole synthesis, 244–8
Adducts from quinones and diazoalkanes. Part 9. The adduct from 2–methyl–1,4–naphthoquinone and diazoethane and the derived secondary carbanion: regioisomerism in carbanion–quinone additions, 1994–2000
Stable carbocations. Part 22. Stereochemistry of the deprotonation of ferrocenylalkylium ions, and of the protonation of alkenylferrocenes, 2213–17
Methylation study of ribonucleosides, deoxyribonucleosides, and 2'–O–methylribonucleosides with trimethylsulfonium hydroxide and trimethylsulfonium iodide. Influence of the 2'–hydroxy–groups on the reactivity of the base moieties of ribonucleosides, 2787–92
IONIZATION
The photoaddition of ethylenic hydrocarbons to benzene, 55–71
IRON
Organoiron complexes in organic synthesis. Part 4. Direct–ring connection between highly substituted centers. A potential approach to trichothecane synthesis, 395–9
Organoiron complexes in organic synthesis. Part 5. Spirocyclization reactions of tricarbonylcyclohexadienyliumiron complexes, 400–5
Organoiron complexes in organic synthesis. Part 6. Dienolonium equivalents: tricarbonyl–(1–alkoxy–2–(1–5–η–4–methoxycyclohexa–2,4–dienylium)ethane)iron hexafluorophosphates and related complexes leading to masked 4,4–disubstituted cyclohexenones, 2238–43
Organoiron complexes in organic synthesis. Part 7. Regio– and stereochemistry of ring connection reactions relevant to steroid and terpene synthesis. Structure of tricarbonyl(methyl 1–[2–5–η–4–methoxy–1–methylcyclohexa–2,4–dienyl]–3–hydroxymethyl–3–methyl–2–oxocyclohexanecarboxylate)iron, 2774–80
ISHWARANE
Synthetic study on several eremophilane sesquiterpenes using a common intermediate, 963–77
ISOBENZOFURAN
The chemistry of fungi. Part 77. The synthesis of benzophenones from phthalides: x–ray crystallographic definition of a novel isobenzofuran system, 2445–9
ISOCOUMARIN
Acetogenin synthesis. Organocopper reagents, anions of 1,3–dithianes and of protected cyanohydrins as intermediates in ketide side–chain synthesis, 136–40
ISOCURCUMENE
A simple and efficient total synthesis of the sesquiterpenes cuparene and iso–α–curcumene, from furan derivatives, 759–61
ISOCYANATE
Synthesis of [1,3,5]thiadiazino[3,2–a]benzimidazole–2,4(3H)–diones and their sulfur analogs, 762–5
ISOCYANIDE
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 14. A useful radical–deamination reaction, 2657–64
ISOEBURNAMINE
Synthetic approach to (±)–vincamine via cleavage of an α–diketone monothioacetal. Alternative synthesis of (±)–eburnamine, (±)–isoeburnamine, and (±)–eburnamenine, 457–61
ISOEUGENOL
Benzodioxanes by oxidative phenol coupling. Synthesis of silybin, 775–8
ISOFLAVANONE
Structure and synthesis of isoflavonoid analogs from Neorautanenia amboensis Schinz, 1804–9
ISOFLAVONE
Synthesis of the pyranoisoflavonoid, heminitidulan. Isoflavanoid and rotenoid glycosides from the bark of Dalbergia nitidula Welw. ex Bak, 2463–9
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
ISOINDOLINONE
Photochemical cyclization of phthalimide Mannich bases, 93–6
ISOLATION
Crystal structure and absolute configuration of a new sesquiterpenoid metabolite of Fomes annosus, 7α,8β,11–trihydroxydrimane, 2196–9
Polymeric proanthocyanidins. Stereochemistry, structural units, and molecular weight, 2278–86
Vesicant principles of poison ivy and related plants: synthesis of the urushiols, 1,2–dihydroxy–3–[(Z)–pentadec–8–enyl]benzene and 1,2–dihydroxy–3–pentadecylbenzene, 2331–7
Structural elucidation of the nigerones, four new naphthopyrones from cultures of Aspergillus niger, 2474–9
ISOLN
Novel α–methyldeoxybenzoins from the heartwood of Pterocarpus angolensis D.C.: absolute configuration and conformation of the first sesquiterpenylangolensins, and x–ray crystal structure of 4–O–α–cadinylangolensin, 2179–83
ISOMERISM
Isomerism and lead(IV) acetate oxidation reactions of p–substituted phenylosazones of some substituted glyoxals and 1,2–diketones. Reactions of metallic acetates with nitrogen compounds. Part 5, 744–9
Preparation and stereochemistry of some 1,1–disubstituted buta–1,3–dienes, 1756–60
ISOMERIZATION
Further conversions of naphthoquinones into dinaphthofuranquinones, 90–2
v–Triazolines. Part 12. Synthesis of 5–amino–1–aryl–4–methylene–4,5–dihydro–v–triazoles, 141–5
Fluoro olefin chemistry. Part 13. A further route to perfluoro–2,3–dimethylbut–2–ene and the photochemical rearrangement of some perfluoroalkyl olefins, 487–9
Pyrethroid photochemistry: mechanistic aspects in reactions of the (dihalovinyl)cyclopropanecarboxylate substituent, 728–32

ISOMERIZATION(contd)
Isomerization of 2-aryl-4-oxo-2,3-dihydrobenzopyrano[2,3-d]pyrimidines to 2-aryl-4-hydroxy-5H-benzopyrano[2,3-d]pyrimidines, 1335–7
A novel photochemical structural inversion: the first methoxy-hydroxymethyl isomerization, 1540–3
Reactions involving fluoride ion. Part 20. Competition between isomerization and nucleophilic attack on a perfluoroalkene, 1551–4
The synthesis of 1H- and 5H-thieno[1,2]diazepines by the electrocyclization of α-(2-alkenylthienyl)diazoalkanes, and some observations on their photochemical reactivity and ring inversion 1718–23
The reaction of nitrosocarbonyl compounds with 2,5-disubstituted furans. Synthesis of 1,4,2-dioxazine and 1,4,2-dioxazole derivatives, 2408–16
Photochemistry of methoxy-substituted quinoline and isoquinoline N-oxides, 2738–42
Alkyltrifluoromethanesulfonates as alkylating reagents for aromatic compounds, 2887–94
ISONIGERONE
Structural elucidation of the nigerones, four new naphthopyrones from cultures of Aspergillus niger, 2474–9
ISONITROSO
Cycloaddition reactions of isonitrosoflavanone esters with Schiff bases and with heteroaromatic rings, 354–61
ISONITROSOFLAVANONE
Cycloaddition reactions of isonitrosoflavanone esters with Schiff bases and with heteroaromatic rings, 354–61
ISOPRENE
Studies related to anthracyclines. Part 1. Some Diels–Alder reactions of 4a,9a-epoxy-4a,9a-dihydroanthracene-1,4,9,10-tetrone, 1007–12
ISOPRENYL
Synthesis of 3-hydroxy-2,3,4,5-tetrahydro-3-methyl[1]benzoxepins by ring-closure of isoprenyl terminal epoxides, 1820–5
ISOPROPENYL
Synthetic studies in the α-kainic acid (2,3-trans,3,4-cis-2-carboxy-4-isopropenylpyrrolidin-3-ylacetic acid) series, 2542–8
ISOPROPYL
Structural investigations of 3-acylpyrrolidine-2,4-diones by nuclear magnetic resonance spectroscopy and x-ray crystallography, 1057–65
ISOPROPYLBENZENE
Sultone formation from 2,4,6-triisopropylbenzenesulfinic acid, 1076–9
ISOPROPYLBENZENESULFINIC
Sultone formation from 2,4,6-triisopropylbenzenesulfinic acid, 1076–9
ISOPROPYLIDENE
Preparation of sugars with branched chains, a methylene bridge, or C-1-phenyl substituents by the Ramirez dioxaphosphole condensation, 1262–6
ISOPROPYLIDENEGLYCERALDEHYDE
Preparation of sugars with branched chains, a methylene bridge, or C-1-phenyl substituents by the Ramirez dioxaphosphole condensation, 1262–6
ISOQUINOLINE
1,3-Dipolar character of six-membered aromatic rings. Part 48. Novel conversions of pyridines to isoquinolines, 331–42
Reaction of protoberberine-type alkaloids. Part 13. Biogenetic conversion of protoberberine alkaloids into phthalideisoquinoline alkaloids, 919–26
The reactions of 2-alkynylbenzaldehydes with hydrazides: a route to isoquinoline N-imines, 1331–4
Electrochemical oxidation of aromatic ethers. Part 6. Oxidation of 4-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-methyl-1,2,3,4-tetrahydroisoquinoline and attempted synthesis of 4-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-methyl-1,4-dihydro-3(2H)-isoquinolone, 2013–20
Photochemistry of methoxy-substituted quinoline and isoquinoline N-oxides, 2738–42
ISOQUINOLINONE
Ene-type reactions involving transfer of acyl groups. Addition of 4-phenyl-1,2,4-triazoline-3,5-dione to various unsaturated compounds, 843–5
ISOSILYBIN
Benzodioxanes by oxidative phenol coupling. Synthesis of silybin, 775–8
ISOTHIAZOLINETHIONE
Studies on heterocyclic chemistry. Part 21. Reactions of 3-mercapto- and 3-acylthio-3-isothiazoline-5-thiones: ring transformations, a base-induced ring cleavage, and thiol ester–thioxo ester rearrangements, 2693–9
ISOTHIOCYANATE
Heterocyclic compounds. Part 6. Synthesis of 1,3,4-thiadiazolidines from the reactions of phenyl hydrazones with phenyl isothiocyanate and carbon disulfide, 574–8
Synthesis of [1,3,5]thiadiazino[3,2-a]benzimidazole-2,4(3H)-diones and their sulfur analogs, 762–5
The chemistry of o-phenylene diisothiocyanate. Part 2. Reactions with enamines, an ynamine and some reactive methylene compounds, 2587–90
The chemistry of o-phenylenediisothiocyanate. Part 3. Studies on the syntheses of heterocyclic compounds, 2608–11
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 14. A useful radical–deamination reaction, 2657–64
ISOVALENCENIC
Further synthetic investigations in the eremophilane sesquiterpene group. Synthesis of (±)-isovalencenic acid, (±)-isovalencenol, and their (Z)-isomers, and experiments directed towards the synthesis of tessaric acid, 1752–5
ISOVALENCENOL
Further synthetic investigations in the eremophilane sesquiterpene group. Synthesis of (±)-isovalencenic acid, (±)-isovalencenol, and their (Z)-isomers, and experiments directed towards the synthesis of tessaric acid, 1752–5
ISOXAZOLE
Isoxazole amino-acids as glutamic acid agonists. Synthesis of some analogs and homologs of ibotenic acid, 1826–33
ISOXAZOLEDICARBOXYLATE
New heterospiro-ring systems by condensation of some heterocyclic o-dicarboxylates with 1,3-diphenylguanidine, 1667–70
ISOXAZOLIDINE
Enamine chemistry. Part 27. The effect of additional α- and β-heteroatoms on the p_π–conjugation and reactivity of enamines. Sub or super enamines?, 2383–6
ISOXAZOLIUM
Preparation of 3-imino-2-en-1-ones from 2-aralkylisoxazolium salts, 1866–9
ITACONIMIDE
Synthesis of N-hydroxymaleimide and N-hydroxyitaconimide and their related derivatives, 2122–5
JA
Cyclodepsipeptides from Beauveria bassiana. Part 3. The isolation of beauverolides Ba, Ca, Ja, and Ka, 2878–80
JOUBERTIAMINE
Applications of substituted arylacetaldehydes in the total synthesis of seco-mesembrane alkaloids. Part 1. The total synthesis of (±)-O-methyljoubertiamine, 906–10
KA
Cyclodepsipeptides from Beauveria bassiana. Part 3. The isolation of beauverolides Ba, Ca, Ja, and Ka, 2878–80
KAINATE
Synthetic studies in the α-kainic acid (2,3-trans,3,4-cis-2-carboxy-4-isopropenylpyrrolidin-3-ylacetic acid) series, 2542–8
KAURENOATE
Terpenoids. Part 8. Partial syntheses of ent-11β-, 12α-, and 12β-hydroxykaur-16-en-19-oic acids from grandiflorenic acid, 1270–8
KETALIZATION
Photolytic conversion of some bicyclo[3.2.0]heptanones into 3-hydroxy- or 3-methoxy-2-oxabicyclo[3.3.0]octan-2-ones, 1583–6
KETENE
1,3-Dipolar character of six-membered aromatic rings. Part 52. 2π + 8π cycloaddition reactions of 1-substituted 3-oxidopyridinium betaines, 1176–84
Ketene. Part 17. Addition reactions of ketenes with N-phenyl nitrones, 1700–5
KETO
Branched-chain sugars. Part 7. A route to sugars with two-carbon branches using 1-methoxyvinyllithium, 269–72
Branched-chain sugars. Part 8. The synthesis of C-acetylpyranosides and a pillarose derivative using 1-methoxyvinyllithium, 273–6
Bicyclic heterocycles with nitrogen at the ring junction. Part 2. Application of the Dakin–West reaction to the synthesis of

KETO(contd)
imidazo[5,1-f]-1,2,4-triazin-4(3H)-ones, 1139–46
Chemistry of quinones. Part 6. The selective hydrolysis of α-acetoxyanthraquinones and related compounds by trifluoroacetic acid containing small amounts of water, 1592–4
KETOAMINE
Carbonyl transposition and regio- and stereo-specific syntheses of new alcohols, aminoalcohols, and ketones in the monoterpenoid 1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane, 2626–30
KETOESTER
Chemistry of quinones. Part 6. The selective hydrolysis of α-acetoxyanthraquinones and related compounds by trifluoroacetic acid containing small amounts of water, 1592–4
KETOL
Synthesis of 2-trifluoromethylcyclohexenones from 2,2,2-trifluoroethyl vinyl ketone, 1114–17
KETONE
A new route to 5-substituted resorcinols and related systems, 170–5
Hydrocyclopropa[b]anthracene derivatives, 176–80
Addition reactions of heterocyclic compounds. Part 72. Dimethyl acetylenedicarboxylate with 1,2,6,7,8,9-hexahydropyrrolo[3,2,1-jk]carbazole, 535–9
Benzazoles. Part 12. Synthesis of 2-(tetrahydro-2-thienyl)benzimidazoles and their unsaturated derivatives by the reaction of 2-mercaptoalkylbenzimidazoles with β-electrophilic ketones, 699–704
Chiroptical studies. Part 96. Short wavelength (190 nm) circular dichroism of ketones, 787–803
Condensed isothiazoles. Part 5. Thieno[2,3-d]isothiazoles and thien[3,2-d]isothiazoles, 1029–37
Synthesis of 2-trifluoromethylcyclohexenones from 2,2,2-trifluoroethyl vinyl ketone, 1114–17
The synthesis of 4-ethyl-3,3a,10,11,12,12a-hexahydro-12-methyl-2H-furo[3',2':5,6]pyrido[3,4-a]carbazol-2-yl methyl ketone. Structure of subincanine, 1290–3
β-Silylcarbonyl compounds as masked enones, 1493–8
Chiroptical studies. Part 98. The short-wavelength circular dichroism of ketones in 2,2,2-trifluoroethanol, 1810–19
o-Quinonoid compounds. Part 17. Evidence for exo-selectivity in the 1,5-sigmatropy of acyl and vinyl groups, 1909–15
1,3,4,5-Tetrahydrobenz[cd]indoles and related compounds. Part IV. Experiments towards the synthesis of the ergot alkaloids and related structures. Part 2. New alkylations on α-carbon and nitrogen in α-amido ketones, 2126–33
Dehydrogenation of steroidal and triterpenoid ketones using benzeneseleninic anhydride, 2209–12
A novel hydrazino-transfer reaction to a saturated carbon: direct conversion of substituted acetophenone and aliphatic ketone 4-nitrophenylhydrazones into 1,2-bishydrazones. Reactions of mercury(II) acetate with nitrogen compounds. Part 6, 2218–21
Heterocyclic polyfluoro-compounds. Part 33. Photochemical oxetane formation from fluoro ketones and perfluoro aldehydes and 1,2-difluoroethylene, 2258–67
Chain-extension reactions of acetylenes. Part 4. Reaction of 1,3-dilithioacetylides with carbonyl electrophiles, hexamethylphosphoric triamide, and benzylideneaniline, 2338–45
Light-induced reactions of heteroaryl N-methylanilinomethyl ketones: formation of 3-heteroaryl-1-phenylazetidin-3-ols, 2371–3
Synthetic applications of N–N linked heterocycles. Part 8. Regiospecific synthesis of 4-(α-acylalkyl) pyridines by attack of lithium enolates of ketones γ to N-(2,6-dimethyl-4-oxopyridin-1-yl)pyridinium salts, 2458–62
Polymer-supported phosphonates. Olefins from aldehydes, ketones, and dioxolanes by means of polymer-supported phosphonates, 2516–19
Synthesis and reactions of 1,6-diaryl-2,5-bis(diazo)-1,3,4,6-tetraoxohexanes, 2670–7
The chemistry of nitrilium salts. Part 1. Acylation of phenols and phenol ethers with nitriles and trifluoromethanesulfonic acid, 2894–900
KETONITROPHENYLHYDRAZONE
A novel hydrazino-transfer reaction to a saturated carbon: direct conversion of substituted acetophenone and aliphatic ketone 4-nitrophenylhydrazones into 1,2-bishydrazones. Reactions of mercury(II) acetate with nitrogen compounds. Part 6, 2218–21
KETOURETHANE
1,3,4,5-Tetrahydrobenz[cd]indoles and related compounds. Part IV. Experiments towards the synthesis of the ergot alkaloids and related structures. Part 2. New alkylations on α-carbon and nitrogen in α-amido ketones, 2126–33
KINETICALLY
Synthetic studies in the α-kainic acid (2,3-trans,3,4-cis-2-carboxy-4-isopropenylpyrrolidin-3-ylacetic acid) series, 2542–8
KINETICS
o-Quinonoid compounds. Part 16. 1,5-Shift of vinyl groups in 1,3-dimethylindenes; product studies and migratory aptitudes of substituted vinyl groups, 714–21
The solvolysis of 4β-hydroxy-3β-p-tolylsulfonyloxyandrost-5-enes, 933–7
o-Quinonoid compounds. Part 17. Evidence for exo-selectivity in the 1,5-sigmatropy of acyl and vinyl groups, 1909–15
Pyranoside derivatives of 3-deoxyald-2-ulosonic acids, 1971–7
Studies on steroids. Part 48. Neighboring group effects. Part 2. Effect of epoxide on the hydrolysis of adjacent acetate groups, 2507–10
Methylation study of ribonucleosides, deoxyribonucleosides, and 2'-O-methylribonucleosides with trimethylsulfonium hydroxide and trimethylsulfonium iodide. Influence of the 2'-hydroxy-groups on the reactivity of the base moieties of ribonucleosides, 2787–92
Singlet oxygen photooxidation of some triazapentalenes, 2904–8
LABEL
New insights into polyketide metabolism; the use of protium as a tracer in the biosynthesis of citrinin by Penicillium citrinum, 2244–8
LABELED
Tritiated peptides. Part 8. Synthesis of [3,5-$^3H_2$-Tyr^2]-, [4-^{3}H-Phe^7]-, and [3,5-$^3H_2$-Tyr^{23}]-human corticotropin, 462–5
LABRIFORMIDIN
7β,8β-Epoxycardenolide glycosides of Asclepias eriocarpa, 2169–73
LABRIFORMIN
7β,8β-Epoxycardenolide glycosides of Asclepias eriocarpa, 2169–73
LACTAM
Studies related to penicillins and cephalosporins. Part 5. A new relay synthesis of penicillin, 11–13
Epoxy ring opening reactions of endo- and exo-3,4-epoxy-6-azabicyclo[3.2.0]heptan-7-ones, 690–2
Photo-induced transformations. Part 44. Formation of lactams in the photolysis of some steroidal acetylhydrazones in the presence of oxygen, 1356–64
Reaction of 6-bromobenzocyclohepten-5-one with amines, 2077–80
Studies related to penicillins and cephalosporins. Part 6. Synthesis of the (±)-dinorpenicillin-spirocyclopentane system, 2228–32
LACTAMASE
Total synthesis of β-lactamase inhibitors based on the 4-oxa-1-azabicyclo[3.2.0]heptan-7-one ring system, 2222–7
On the chemistry of β-lactamase inhibition by 6β-bromopenicillanic acid, 2322–9
LACTARIUS
Fungal metabolites. Part 5. Uvidins, new drimane sesquiterpenes from Lactarius uvidus Fries, 221–6
LACTOBACILLUS
Studies of enzyme-mediated reactions. Part 13. Stereochemical course of the formation of histamine by decarboxylation of (2S)-histidine with enzymes from Clostridium welchii and Lactobacillus 30a, 43–51
LACTOL
Preparation and hydrolysis of some 4-substituted bicyclo[3.1.0]hex-2-ene-6-carboxaldehydes: synthesis of the prostaglandin A_2 analog possessing a butyl group in place of the octenol side chain 2088–92
LACTONE
β-Silylcarbonyl compounds as masked enones, 1493–8
Product formation and identification in the reaction of 6-endo-hydroxy-5-exo-iodo-3-exo-phenylnorborn-2-endo-ylcarboxylic acid γ-lactone with silver toluene-p-sulfonate, 1578–82
Preparation and some reactions of 2-oxatricyclo[3.3.0.0^{4,6}]oct-7-en-3-one: synthesis of 9-deoxa-9,10-dehydroprostaglandin D_2, 2093–7
LANOSTEROL
Lanosterol derivatives as precursors in the biosynthesis of viridin. Part 1, 422–5
LANTHIONYL
Lanthionine chemistry. Part 5. Synthesis of cyclic nonsymmetrical lanthionyl peptides, 1965–70

LEAD
Oxidation of enamine esters with lead tetraacetate. Part 1. Products from some N-alkylaminofumarates, 156–62
Studies on tetrahydroisoquinolines. Part 15. Lead tetraacetate oxidation of four hydroxytetrahydroprotoberberines, (±)-govanine, (±)-discretine, (±)-corytencine, and (±)-10-hydroxy-2,3,11-trimethoxytetrahydroprotoberberine, 1169–75
LEMONNIERIN
The bacterial pigment from Pseudomonas lemonnieri. Part 1. Structure of a degradation product, 3-n-octanamidopyridine-2,5,6-trione, by x-ray crystallography, 1782–7
The bacterial pigment from Pseudomonas lemonnieri. Part 2. The synthesis of 3-n-octanamidopyridine-2,5,6-trione: the structure and synthesis of lemonnierin, 1788–95
LEWIS
Alkyltrifluoromethanesulfonates as alkylating reagents for aromatic compounds, 2887–94
LICHEN
Further total syntheses of chlorine-containing lichen xanthones, 85–9
LITHIATION
Methods for the construction of linear 1,7-diarylheptanoids; synthesis of di-O-methylcentrolobol and precursors (synthetic and biosynthetic) to the meta,meta-bridged biphenyls myricanol and myricanone, 614–22
Ring opening reactions. Part 16. Ring opening of (2,5-dimethoxy-3-thienyl)lithium and some related compounds, 1390–2
Vesicant principles of poison ivy and related plants: synthesis of the urushiols, 1,2-dihydroxy-3-[(Z)-pentadec-8-enyl]benzene and 1,2-dihydroxy-3-pentadecylbenzene, 2331–7
Reactions of alkyllithium compounds with aryl halides, 2617–25
α-(4,6-Diphenyl-2-oxo-1-pyridyl)benzyllithiums and their reactions with electrophiles, 2851–5
LITHIOACETYLIDE
Chain-extension reactions of acetylenes. Part 4. Reaction of 1,3-dilithioacetylides with carbonyl electrophiles, hexamethylphosphoric triamide, and benzylideneaniline, 2338–45
LITHIOALKYL
Reaction between 1,1-dilithioalkyl phenyl sulfones and ω-bromo esters. Synthesis of cyclic vinyl ethers, 260–3
LITHIOALKYNE
Conjugate, homoconjugate, and 1,2-additions of acetylene nucleophiles and their application to prostaglandin synthesis, 2346–52
LITHIOBENZENE
The chemistry of fungi. Part 77. The synthesis of benzophenones from phthalides: x-ray crystallographic definition of a novel isobenzofuran system, 2445–9
LITHIUM
Branched-chain sugars. Part 7. A route to sugars with two-carbon branches using 1-methoxyvinyllithium, 269–72
Branched-chain sugars. Part 8. The synthesis of C-acetylpyranosides and a pillarose derivative using 1-methoxyvinyllithium, 273–6
A novel reduction of activated olefins by lithium amides, 1267–9
Synthetic applications of N–N linked heterocycles. Part 8. Regiospecific synthesis of 4-(α-acylalkyl) pyridines by attack of lithium enolates of ketones γ to N-(2,6-dimethyl-4-oxopyridin-1-yl)pyridinium salts, 2458–62
LYSERGIC
Studies of lysergic acid diethylamide and related compounds. Part 8. Structural identification of new metabolites of lysergic acid diethylamide obtained by microbial transformation using Streptomyces roseochromogenes, 902–5
LYTHRANIDINE
Lythraceous alkaloids. Part 11. Total synthesis of (±)-lythranidine 1066–9
MACROCYCLE
Lythraceous alkaloids. Part 11. Total synthesis of (±)-lythranidine 1066–9
Total synthesis of the macrocyclic diterpene (–)-casbene, the putative biogenetic precursor of lathyrane, tigliane, ingenane, and related terpenoid structures, 1711–17
A tautomerizable macrocyclic compound containing two aza-bridged 2,2'-bipyridine moieties, 2527–30
Synthesis of potentially basic hydrocarbons by sulfur extrusion and/or bis-Wittig reactions. Two syntheses of benz[5,6]indeno[2,1-a]phenalene and a new synthesis of dibenzo[de,mn]naphthacene (zethrene), 2812–17
MAGNESIUM
Intramolecular alkylation of phenols. Part 5. A regiospecific anionic ring closure of phenols via quinone methides, 1567–77
MALATE
Synthesis, absolute configuration, and circular dichroism of the enantiomers of fluorosuccinic acid, 2029–32
MALEIMIDE
Synthesis of N-hydroxymaleimide and N-hydroxyitaconimide and their related derivatives, 2122–5
MAMMALIAN
Studies of enzyme-mediated reactions. Part 12. Stereochemical course of the decarboxylation of (2S)-tyrosine to tyramine by microbial, mammalian, and plant systems, 31–42
MANICOL
Manicol, an aromatic sesquiterpene from Dulacia guianensis (Liriosma cf. acuta), 2065–9
MANNICH
Photochemical cyclization of phthalimide Mannich bases, 93–6
Synthesis of 5,6-dihydro-4H-1,3,5-dithiazines, 2,3-dihydro-6-thioxo-6H-1,3-thiazine, and 6-amino-1,3-dithiins, 1038–44
MANNITOL
A possible model for a new chiral glyceride synthesis. Part 2. Synthesis of 1,3-di-O-aroyl- and 1-O-aroyl-3-O-tosyl-sn-glycerols from 2,5-O-methylene D-mannitol, 1–6
MANNOPYRANOSE
Alkyloxytris(dimethylamino)phosphonium salts. Part 21. Anomeric hydroxy-group activation of 2,3:4,6-di-O-isopropylidene-α-D-mannopyranose, thioglycosylation, and glycosylation, 381–4
MANNOSE
Alkyloxytris(dimethylamino)phosphonium salts. Part 21. Anomeric hydroxy-group activation of 2,3:4,6-di-O-isopropylidene-α-D-mannopyranose, thioglycosylation, and glycosylation, 381–4
MANNOSIDE
Alkyloxytris(dimethylamino)phosphonium salts. Part 21. Anomeric hydroxy-group activation of 2,3:4,6-di-O-isopropylidene-α-D-mannopyranose, thioglycosylation, and glycosylation, 381–4
MEAT
Nitrosation and nitrosylation of hemoproteins and related compounds. Part 4. Pentacoordinate nitrosylprotoheme as the pigment of cooked cured meat. Direct evidence from ESR spectroscopy, 1706–10
MECHANICS
Restricted rotation about the carbon–nitrogen single bond of 1-aryl-4,6-dimethylpyrimidin-2(1H)-ones and the corresponding thiones, 1599–602
MECHANISM
Addition reactions of heterocyclic compounds. Part 71. The formation of 1,3a,3b,4,6a,6b-hexahydrocyclopenta[3,4]cyclobuta[1,2-b]pyrroles from dimethyl acetylenedicarboxylate and 1-aryl-1,4-dihydropyridines, 81–4
Partially fluorinated heterocyclic compounds. Part 12. Novel internal Diels–Alder adducts via Claisen rearrangement intermediates from tetrafluoro-4- and -3-pyridyl prop-2-enyl ethers. Syntheses of tetrafluoro-3-aza- and -4-aza-tricyclo[3.3.1.0^{2,7}]non-3-en-6-one, 102–6
1,2,3-Benzotriazin-4-ones and related systems. Part 6. Thermal and photolytic decomposition of 3-arylideneamino-, 3-imidoyl-, and 3-heteroaryl-1,2,3-benzotriazin-4-ones, 633–8
Oxidation of aryldialkylamines with cerium(IV) ammonium nitrate and thallium(II) nitrate, 828–32
Arbuzov reaction of alkyl and silyl phosphites with halogens involving four- and five-coordinate intermediates, 833–6
Mechanism of thermal decomposition of tetra-aryltellurium species 1338–44
Thermolysis of o-alkylnitrosobenzenes. Unusually ready [1,5] hydrogen shift involving a nitroso group, 1365–9
Excited state substitution and addition reactions of aryl fluorides with aliphatic amines, 1393–9
Mechanism of light-induced reductive acetylation of 1,2-naphthoquinone with acetalaldehyde, 1414–19
Mechanism of the formation of ethylene bis(dimethyldithiocarbamate) from tetramethylthiuram monosulfide and sodium 2-hydroxyethanethiolate, 1724–5
Unsaturated steroids. Part 10. The mechanism of the anthrasteroid rearrangement: the conformation of anthrasteroids, 1779–81
Studies related to penicillins. Part 20. The mechanism of the rearrangement of methyl benzylpenicillinate to methyl benzylpenillonate, 2001–8
Rearrangement of the lactone ring of gibberellin A_3 in aqueous

MECHANISM(contd)
alkali; participation of the ionized 3-hydroxy group in an anti S_N2' reaction, 2117–21
The thermolysis of polyazapentadienes. Part 1. 1,5-Diaryl-1,2,5-triaza derivatives, 2200–4
Nucleophilic displacement and spiro-complex formation in NN'-dimethyl-N-picrylethylenediamine, 2205–8
New insights into polyketide metabolism; the use of protium as a tracer in the biosynthesis of citrinin by Penicillium citrinum, 2244–8
Photo-induced transformations. Part 50. The photo-Beckmann rearrangement of 3α,5-cyclo-5α-cholestan-7-one oxime, a βγ-cyclopropyl ketone oxime, 2268–71
Purines, pyrimidines, and imidazoles. Part 54. Interconversion of some intermediates in the de novo biosynthesis of purine nucleotides, 2316–21
Evidence for the mechanism of formation of N-(1,2-dihydrobenzocyclobut-1-enyl)pyridinium bromides and acetophenones from bisdibromocyclopropane adducts, 2405–7
The photoreactions of pyridine and 2-fluoropyridine with aliphatic amines, 2531–4
Biosynthesis of ascochitine and synthesis of its biogenetic precursors 2549–53
Reductive deamination of primary amines, 2554–60
Addition of thallium triacetate to $PGF_{2\alpha}$ methyl ester and related compounds in acetic acid. Nuclear magnetic resonance spectral study of novel dioxatricyclic and oxabicyclic products, 2572–80
Reactions of androsta-3,5-dienes with m-chloroperbenzoic acid, 2581–6
The chemistry of o-phenylenediisothiocyanate. Part 3. Studies on the syntheses of heterocyclic compounds, 2608–11
Mechanism of diol formation in the reaction of benzylic Grignard reagents with aldehydes, 2631–6
Redox-photosensitized reactions. Part 6. Stereospecific ring cleavage of 1-phenoxy-1,2,2a,3,4,8b-hexahydrocyclobuta[a]naphthalene-8b-carbonitrile and its 2-methyl derivatives by redox-photosensitization, 2705–8
N-Oxides and related compounds. Part 60. Novel thermal and photochemical rearrangements of N-substituted 2-pyridones, 2743–54
Synthetic studies towards complex diterpenoids. Part 13. Stereospecific synthesis of intermediates to the diterpene alkaloids and the C_{20}-gibberellins by a novel rearrangement of angularly fused cyclobutanones, 2881–6
Singlet oxygen photooxidation of some triazapentalenes, 2904–8
Reaction of ozonides with methanol in the presence of chlorosulfonic acid: selective cleavage of the carbon–oxygen bond of the peroxide bridge, 2909–13
MELANORRHEA
Vesicant principles of poison ivy and related plants: synthesis of the urushiols, 1,2-dihydroxy-3-[(Z)-pentadec-8-enyl]benzene and 1,2-dihydroxy-3-pentadecylbenzene, 2331–7
MENTHADIENOL
Cyclobutane ring opening of pin-2(10)-ene with mercury(II) salts. A new, high-yield synthesis of p-mentha-1,8-dien-7-ol, 1747–51
MENTHENEDIOL
Cyclobutane ring opening of pin-2(10)-ene with mercury(II) salts. A new, high-yield synthesis of p-mentha-1,8-dien-7-ol, 1747–51
MENTHENOL
Cyclobutane ring opening of pin-2(10)-ene with mercury(II) salts. A new, high-yield synthesis of p-mentha-1,8-dien-7-ol, 1747–51
MERCAPTO
The chemistry of 4-mercaptoazetidin-2-ones. Part 1. Preparation and properties of (3R,4R)-4-mercapto-3-phenoxyacetamidoazetidin-2-one, 146–9
Condensed isothiazoles. Part 5. Thieno[2,3-d]isothiazoles and thien[3,2-d]isothiazoles, 1029–37
The preparation of derivatives containing the imidazo[2,1-b]thiazine and 1,2,4-triazolo[3,2-b][1,3]thiazine systems, 1352–5
Studies on heterocyclic chemistry. Part 21. Reactions of 3-mercapto- and 3-acylthio-3-isothiazoline-5-thiones: ring transformations, a base-induced ring cleavage, and thiol ester-thioxo ester rearrangements, 2693–9
New dyes based on 3-arylbenzo- and -naphtho-1,4-thiazines, 2923–32
MERCAPTOALKYLBENZIMIDAZOLE
Benzazoles. Part 12. Synthesis of 2-(tetrahydro-2-thienyl)benzimidazoles and their unsaturated derivatives by the reaction of 2-mercaptoalkylbenzimidazoles with β-electrophilic ketones, 699–704
MERCAPTOAZETIDINONE
The chemistry of 4-mercaptoazetidin-2-ones. Part 1. Preparation and properties of (3R,4R)-4-mercapto-3-phenoxyacetamidoazetidin-2-one, 146–9
The chemistry of 4-mercaptoazetidin-2-ones. Part 2. Synthesis of bisnorpenicillins, 150–5
MERCAPTOIMIDAZOLE
Steroidal heterocycles: synthesis and structure of imidazo[2,1-b]thiazolo-, thiazolo[3,2-a]benzimidazolo-, and thiazolo[3,2-b]-s-triazolo-derivatives, 2146–51
MERCAPTOISOTHIAZOLINETHIONE
Studies on heterocyclic chemistry. Part 21. Reactions of 3-mercapto- and 3-acylthio-3-isothiazoline-5-thiones: ring transformations, a base-induced ring cleavage, and thiol ester-thioxo ester rearrangements, 2693–9
MERCAPTOTHIENYL
Condensed isothiazoles. Part 5. Thieno[2,3-d]isothiazoles and thien[3,2-d]isothiazoles, 1029–37
MERCAPTOTHIOPHENECARBALDOXIME
Condensed isothiazoles. Part 5. Thieno[2,3-d]isothiazoles and thien[3,2-d]isothiazoles, 1029–37
MERCAPTOTRIAZOLE
The preparation of derivatives containing the imidazo[2,1-b]thiazine and 1,2,4-triazolo[3,2-b][1,3]thiazine systems, 1352–5
MERCURATION
Regio- and stereo-selectivity of acetoxymercuration of acetylenes, 1098–103
MERCURY
Alkylidene transfer from (monochloroalkyl)mercury(II) compounds to aromatic amines; selective C-alkylation, 1420–6
Cyclobutane ring opening of pin-2(10)-ene with mercury(II) salts. A new, high-yield synthesis of p-mentha-1,8-dien-7-ol, 1747–51
A novel hydrazino-transfer reaction to a saturated carbon: direct conversion of substituted acetophenone and aliphatic ketone 4-nitrophenylhydrazones into 1,2-bishydrazones. Reactions of mercury(II) acetate with nitrogen compounds. Part 6, 2218–21
Catalytic and noncatalytic addition of aromatic amines to terminal acetylenes in the presence of mercury(II) chloride and acetate, 2732–7
MESEMBRANE
Applications of substituted arylacetaldehydes in the total synthesis of seco-mesembrane alkaloids. Part 1. The total synthesis of (±)-O-methyljoubertiamine, 906–10
MESITYLENE
Alkyltrifluoromethanesulfonates as alkylating reagents for aromatic compounds, 2887–94
METAB
Lanosterol derivatives as precursors in the biosynthesis of viridin. Part 1, 422–5
METABOLITE
Biosynthesis of bisdethiobis(methylthio)gliotoxin, a new metabolite of Glíocladium deliquescens, 119–21
Studies of lysergic acid diethylamide and related compounds. Part 8. Structural identification of new metabolites of lysergic acid diethylamide obtained by microbial transformation using Streptomyces roseochromogenes, 902–5
Crystal structure and absolute configuration of a new sesquiterpenoid metabolite of Fomes annosus, 7α,8β,11-trihydroxydrimane, 2196–9
Isolation and structural elucidation of a novel sterol metabolite of Fusarium sporotrichioides 921, 2914–17
METAL
Metal-assisted reactions. Part 8. Selectivity in the reaction of organic halides with tetrahydroborate and the reduction of acyl halides to aldehydes, 27–30
Metal-catalyzed organic photoreactions. Evidence for the long-range electron-transfer mechanism in the uranyl- or iron(III)-catalyzed photoreactions of olefins, 947–9
METHANESULFONAMIDE
The chemistry of o-phenylenediisothiocyanate. Part 3. Studies on the syntheses of heterocyclic compounds, 2608–11
METHANOBENZAZONINE
Bridged-ring nitrogen compounds. Part 3. Synthesis of representatives of the 1,5-methano-4-benzazonine ring system, 2141–5
METHANOINDENEDIONE
Pentacarbonyliron-promoted conversion of 3a,7a-dihydroindenones into indanones, 444–7

METHANOL
Reactions of 4-bromo-4-(1-hydroxypropyl)-2,6-di-tert-butylcyclohexa-2,5-dienone in methanolic sulfuric acid, 1595-8
Selectivity in the hydrogenation of 6- and 8-substituted quinolines, 1933-9
Reaction of ozonides with methanol in the presence of chlorosulfonic acid: selective cleavage of the carbon–oxygen bond of the peroxide bridge, 2909-13
METHANOLYSIS
Pyranoside derivatives of 3-deoxyald-2-ulosonic acids, 1971-7
METHIDE
A general and practicable synthesis of polycyclic heteroaromatic compounds. Part 1. Use of a putative quinolone–quinone-methide in the synthesis of polycyclic heteroaromatic compounds 512-21
A general and practicable synthesis of polycyclic heteroaromatic compounds. Part 2. Reaction of quinone–methides of pyridones, pyrimidines, coumarin, and benzene with aromatic amines in a novel synthesis of polycyclic heteroaromatic compounds, 522-8
A general and practicable synthesis of polycyclic heteroaromatic compounds. Part 3. Extension of the synthesis to 'quinone methides' of naphthalene, phenanthrene, and benzene, 1233-9
Intramolecular alkylation of phenols. Part 5. A regiospecific anionic ring closure of phenols via quinone methides, 1567-77
METHIODIDE
Synthesis and ring expansion of 4-(2-dimethylaminoethyl)-4-methylnaphthalen-1(4H)-one and its 2,3-dihydro derivative and some reactions of the lactam products, 2380-2
METHOXY
Total synthesis of substituted (±)-6,6-dimethyl-D-norestra-1,3,5(10)-trien-17β-ols and their 9β-isomers, 448-56
Synthetic studies toward complex diterpenoids. Part 11. Stereochemically defined synthesis of the racemates of 1,2,3,4,4a,9a-hexahydro-7-methoxy-1-methylfluorene-1-carboxylic acid, 804-8
A method for the preparation of 7α-methoxycephalosporins, 1109-13
A novel photochemical structural inversion: the first methoxy–hydroxymethyl isomerization, 1540-3
Photochemistry of methoxy-substituted quinoline and isoquinoline N-oxides, 2738-42
METHOXYBENZENE
Vesicant principles of poison ivy and related plants: synthesis of the urushiols, 1,2-dihydroxy-3-[(Z)-pentadec-8-enyl]benzene and 1,2-dihydroxy-3-pentadecylbenzene, 2331-7
METHOXYBENZOFURANONE
A novel photochemical structural inversion: the first methoxy–hydroxymethyl isomerization, 1540-3
METHOXYBENZOPHENONE
The chemistry of fungi. Part 77. The synthesis of benzophenones from phthalides: x-ray crystallographic definition of a novel isobenzofuran system, 2445-9
METHOXYBENZOYLMETHOXYCARBONYLOXABICYCLOHEPTANE
The chemistry of fungi. Part 76. The synthesis and transformations of three stereoisomeric 2-(2,6-dimethoxybenzoyl)-3-methoxycarbonyl-7-oxabicyclo[2.2.1]heptanes, 2435-44
METHOXYBENZYL
Studies related to penicillins and cephalosporins. Part 5. A new relay synthesis of penicillin, 11-13
Acetogenin synthesis. Organocopper reagents, anions of 1,3-dithianes and of protected cyanohydrins as intermediates in ketide side-chain synthesis, 136-40
METHOXYBENZYLTHIOVALINE
Studies related to penicillins and cephalosporins. Part 5. A new relay synthesis of penicillin, 11-13
METHOXYBROMOXYLOPYRANOSE
Photobromination of carbohydrate derivatives. Part 5. Preparation and reactions of (5S)-1,2,3,4-tetra-O-acetyl-5-bromo-β-D-xylopyranose; a new type of 'double-headed' nucleoside, 2767-73
METHOXYCARBONYL
Partially fluorinated heterocyclic compounds. Part 12. Novel internal Diels–Alder adducts via Claisen rearrangement intermediates from tetrafluoro-4- and -3-pyridyl prop-2-enyl ethers. Syntheses of tetrafluoro-3-aza- and -4-aza-tricyclo[3.3.1.0^{2,7}]non-3-en-6-one, 102-6
Ring-expansion of carbocyclic β-ketoesters with acetylenic esters, 1245-50
Regio- and stereospecific synthesis in threo-3-amino-2-hydroxy acids, novel amino acids contained in aminopeptidase inhibitors of microbial origin, 1618-21
METHOXYCARBONYLBENZAZEPINONE
Reactions of the sodium salts of some heterocyclic β-ketoesters with dimethyl acetylenedicarboxylate, 1251-6
METHOXYCARBONYLCYCLOALKANONE
Ring-expansion of carbocyclic β-ketoesters with acetylenic esters, 1245-50
METHOXYCARBONYLFURAN
Photosensitized oxidation of furans. Part 1. Synthesis and properties of furan endo-peroxides, 1955-9
METHOXYCARBONYLMETHYLETHYLIDENE
Synthesis of tert-butyl 2-(2-methoxycarbonyl-1-methylethylidene-)penam-3-carboxylates; clavulanic acid analogs, 187-90
METHOXYCARBONYLOXIRANE
Regio- and stereospecific synthesis in threo-3-amino-2-hydroxy acids, novel amino acids contained in aminopeptidase inhibitors of microbial origin, 1618-21
METHOXYCEPHALOSPORIN
A method for the preparation of 7α-methoxycephalosporins, 1109-13
METHOXYCYCLOHEXADIENE
Organoiron complexes in organic synthesis. Part 6. Dienolonium equivalents: tricarbonyl-[1-alkoxy-2-(1-5-η-4-methoxycyclohexa-2,4-dienylium)ethane]iron hexafluorophosphates and related complexes leading to masked 4,4-disubstituted cyclohexenones, 2238-43
METHOXYCYCLOHEXADIENYL
Organoiron complexes in organic synthesis. Part 6. Dienolonium equivalents: tricarbonyl-[1-alkoxy-2-(1-5-η-4-methoxycyclohexa-2,4-dienylium)ethane]iron hexafluorophosphates and related complexes leading to masked 4,4-disubstituted cyclohexenones, 2238-43
METHOXYDIGLYCOLALDEHYDE
Branched-chain sugars. 9. Characterization of the stereoisomeric methyl 3-deoxy-3-C-methyl-3-nitropentopyranosides resulting from the condensation of nitroethane with L-2-methoxydiglycoaldehyde and the x-ray crystal structure of methyl 2,4-di-O-acetyl-3-deoxy-3-C-methyl-3-nitro-β-D-xylopyranoside, 995-1002
METHOXYISOQUINOLINE
Photochemistry of methoxy-substituted quinoline and isoquinoline N-oxides, 2738-42
METHOXYMETHOXYTRIMETHOXYCHALCONE
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856-65
METHOXYMETHYLFLUORENECARBOXYLIC
Synthetic studies toward complex diterpenoids. Part 11. Stereochemically defined synthesis of the racemates of 1,2,3,4,4a,9a-hexahydro-7-methoxy-1-methylfluorene-1-carboxylic acid, 804-8
METHOXYMETHYLNORESTRATRIENOL
Total synthesis of substituted (±)-6,6-dimethyl-D-norestra-1,3,5(10)-trien-17β-ols and their 9β-isomers, 448-56
METHOXYNEPETEFOLIN
X-ray structure determination of methoxynepetaefolin and nepetaefolinol, labdane diterpenoids from Leonotis nepetaefolia R.Br, 264-8
METHOXYPENICILLIN
A method for the preparation of 7α-methoxycephalosporins, 1109-13
METHOXYPHENOL
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856-65
METHOXYQUINOLINE
Photochemistry of methoxy-substituted quinoline and isoquinoline N-oxides, 2738-42
METHOXYTHIAZOLOAZEPINE
Synthesis and photolysis of azidobenzo[b]thiophenes, -benzothiazoles, -benzimidazoles, and -indazoles: novel 6,7-diaminobenzothiazoles, -benzimidazoles, and -indazoles and 6-diethylamino-8H-thiazolo[5,4-c]azepines, 2362-70
METHOXYVINYL
Branched-chain sugars. Part 7. A route to sugars with two-carbon branches using 1-methoxyvinyllithium, 269-72
Branched-chain sugars. Part 8. The synthesis of C-acetylpyranosides and a pillarose derivative using 1-methoxyvinyllithium, 273-6
METHOXYVINYLLITHIUM
Branched-chain sugars. Part 7. A route to sugars with two-carbon branches using 1-methoxyvinyllithium, 269-72

METHOXYVINYLLITHIUM(contd)
Branched-chain sugars. Part 8. The synthesis of C-acetylpyranosides and a pillarose derivative using 1-methoxyvinyllithium, 273–6
METHYL
Hydrogenation of cyclobutanes in strained cage compounds. Synthesis of ditwistane and bisnorditwistane (ditwistbrendane), 163–9
Quinones. Part 9. Sidechain alkylthiolation of methyl-1,4-naphthoquinones, 282–8
Quinones. Part 10. Side-chain methylthiolation of methylbenzoquinones, 289–92
Free radical reactions of halogenated bridged polycyclic compounds. Part 18. The addition of chlorine and bromine to 1,2,3,4,7,7-hexachloro-5-methylnorbornadiene, 302–5
Total synthesis of substituted (±)-6,6-dimethyl-B-norestra-1,3,5(10)-trien-17β-ols and their 9β-isomers, 448–56
Syntheses and properties of methyl-substituted benzannelated tetradehydro[13]annulenones, 466–72
Synthesis and properties of a trimethyltetradehydro[17]annulenone and its benzannelated derivatives, 473–80
Nitrosation and nitroxylation of hemoproteins and related compounds. Part 3. Attack at the vinyl groups of protoporphyrin dimethyl ester. X-ray analysis of 8¹(E)-8²-nitroprotoporphyrin dimethyl ester, 490–4
Addition reactions of heterocyclic compounds. Part 72. Dimethyl acetylenedicarboxylate with 1,2,6,7,8,9-hexahydropyrrolo[3,2,1-jk]carbazole, 535–9
Ring C aromatic steroids. Part 2. Rearrangement of 16α,17α-epoxy- and 17α-hydroxy-5,7-dienes, 556–62
Synthesis of [1,3,5]thiadiazino[3,2-a]benzimidazole-2,4(3H)-diones and their sulfur analogs, 762–5
Synthetic studies toward complex diterpenoids. Part 11. Stereochemically defined synthesis of the racemates of 1,2,3,4,4a,9a-hexahydro-7-methoxy-1-methylfluorene-1-carboxylic acid, 804–8
Applications of substituted arylacetaldehydes in the total synthesis of seco-mesembrane alkaloids. Part 1. The total synthesis of (±)-O-methyljoubertiamine, 906–10
Absolute configuration and chiroptical properties of 8-methyl-1-decalones, 950–8
Synthesis of heterocyclic compounds via enamines. Part 8. Acid-catalyzed transformations in 4,4,6-trimethyl-1,4-dihydropyrimidine-2(3H)-thione derivatives and related compounds, 1013–18
The structure of bonellin and its derivatives. Unique physiologically active chlorins from the marine echurian Bonellia viridis, 1080–9
Quinoline alkaloids. Part 19. Synthesis of O-methylptelefolonium iodide and (±)-dubinidine, 1136–8
Terpenoids. Part 9. 10α → 9α-Methyl migration in derivatives of grandiflorenic acid, 1279–82
The synthesis of 4-ethyl-3,3a,10,11,12,12a-hexahydro-12-methyl-2H-furo[3',2':5,6]pyrido[3,4-a]carbazol-2-yl methyl ketone. Structure of subincanine, 1290–3
Chemistry of quinones. Part 6. The selective hydrolysis of α-acetoxyanthraquinones and related compounds by trifluoroacetic acid containing small amounts of water, 1592–4
Regio- and stereospecific synthesis in threo-3-amino-2-hydroxy acids, novel amino acids contained in aminopeptidase inhibitors of microbial origin, 1618–21
Reactions of 4,5-dihydro-5-methylpyrano[4,3-b]indole-1,3-dione; a synthesis of N-methylisotryptophol, 1688–92
Synthesis of 3-hydroxy-2,3,4,5-tetrahydro-3-methyl[1]benzoxepins by ring-closure of isoprenyl terminal epoxides, 1820–5
2-Pyridones and 4-pyridones by oxidative demethylation of 2- and 4-methylpyridinium cations, 1888–9
Bacteriostatic activity of fluoro analogs of 5-(2-hydroxyethyl)-4-methylthiazole, a metabolic intermediate in the biosynthesis of thiamine, 2026–8
Convenient syntheses of alkyl β-resorcylate derivatives, 2272–7
Quinoline alkaloids. Part 20. Synthesis of ptelefolone and O-methylribaline. Ring closure of epoxides of 3-prenylquinolones, 2294–9
Chain-extension reactions of acetylenes. Part 4. Reaction of 1,3-dilithioacetylides with carbonyl electrophiles, hexamethylphosphoric triamide, and benzylideneaniline, 2338–45
Studies in the xanthone series. Part 13. Structural and synthetic studies on toxyloxanthone B, 2353–7
Synthesis and reactions of azidobenzothiazoles and -benzo[b]thiophenes. Novel thiazolo[4,5-g]benzoxazoles and dihydrothieno[3,2-g]benzoxazoles, 2358–61
Carbonyl transposition and regio- and stereo-specific syntheses of new alcohols, aminoalcohols, and ketones in the monoterpenoid 1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane, 2626–30
Photobromination of carbohydrate derivatives. Part 4. Observations on some glucopyranoside esters; a simple route to aryl α-L-idopyranosides, 2762–7
Alkyltrifluoromethanesulfonates as alkylating reagents for aromatic compounds, 2837–94
METHYLALKOXYCARBONYLAMINOPHENOL
Studies on the preparation of N-alkyl-O-phenylhydroxylamines, 2781–6
METHYLALLYLTRYPTOPHAN
Biosynthesis of aromatic isoprenoids. Part 5. The preparation of 1-(3,3-dimethylallyl)-L-tryptophan and cyclo-L-alanyl-1-(3,3-dimethyl-allyl)-L-tryptophan and their nonincorporation into echinulin, 1294–8
METHYLAMINE
Heterocycles in organic synthesis. Part 13. The reaction of 2,4-diphenylthiopyrylium perchlorate with amines, 1345–6
METHYLAMINOMETHYLENE
Reactions of 4,5-dihydro-5-methylpyrano[4,3-b]indole-1,3-dione; a synthesis of N-methylisotryptophol, 1688–92
METHYLAMINOMETHYLENEDIHYDROMETHYLPYRANOINDOLEDIONE
Reactions of 4,5-dihydro-5-methylpyrano[4,3-b]indole-1,3-dione; a synthesis of N-methylisotryptophol, 1688–92
METHYLANILINE
Quinoline alkaloids. Part 20. Synthesis of ptelefolone and O-methylribaline. Ring closure of epoxides of 3-prenylquinolones, 2294–9
METHYLANILINOMETHYL
Light-induced reactions of heteroaryl N-methylanilinomethyl ketones: formation of 3-heteroaryl-1-phenylazetidin-3-ols, 2371–3
METHYLATION
Derivatives of 3H-1,2,3-triazolo[4,5-d][1,3]thiazine, a new heterocyclic nucleus. Some shifts of a methylene group from a nitrogen to a sulfur atom, 2009–12
Methylation study of ribonucleosides, deoxyribonucleosides, and 2'-O-methylribonucleosides with trimethylsulfonium hydroxide and trimethylsulfonium iodide. Influence of the 2'-hydroxy-groups on the reactivity of the base moieties of ribonucleosides, 2787–92
METHYLBENZOQUINONE
Quinones. Part 10. Side-chain methylthiolation of methylbenzoquinones, 289–92
METHYLBENZYLLITHIUM
α-(4,6-Diphenyl-2-oxo-1-pyridyl)benzyllithiums and their reactions with electrophiles, 2851–5
METHYLBICYCLOOCTENONE
Photochemistry of substituted cyclic enones. Part 2. 5-[Prop-2-enyl]cyclopentenones, 1516–22
METHYLBUTENYLAMINO
Synthetic studies in the α-kainic acid (2,3-trans,3,4-cis-2-carboxy-4-isopropenylpyrrolidin-3-ylacetic acid) series, 2542–8
METHYLBUTENYLAMINOBUTENOATE
Synthetic studies in the α-kainic acid (2,3-trans,3,4-cis-2-carboxy-4-isopropenylpyrrolidin-3-ylacetic acid) series, 2542–8
METHYLBUTENYLMALONATE
Quinoline alkaloids. Part 20. Synthesis of ptelefolone and O-methylribaline. Ring closure of epoxides of 3-prenylquinolones, 2294–9
METHYLCYCLOHEXENYLSILANE
Friedel-Crafts reactions of some vinylsilanes, 2485–9
METHYLDECALONE
Absolute configuration and chiroptical properties of 8-methyl-1-decalones, 950–8
METHYLDEHYDROANNULENONE
Synthesis and properties of a trimethyltetradehydro[17]annulenone and its benzannelated derivatives, 473–80
METHYLENE
v-Triazolines. Part 12. Synthesis of 5-amino-1-aryl-4-methylene-4,5-dihydro-v-triazoles, 141–5
Spirans. Part 13. The synthesis and orientation of spirans related to Abel's ketone (naphtho[2,1-b]furan-2(1H)-spiro-1'(2'H)-naphthalen-2'-one), 1986–93
Branched-chain sugars. Part 11. An approach to the synthesis of D-evernitrose via the addition of iodine azide to a C-methylene sugar, 2061–4

METHYLENE(contd)
The chemistry of o-phenylene diisothiocyanate. Part 2. Reactions with enamines, an ynamine and some reactive methylene compounds, 2587–90
METHYLENEALKYLAMINOMETHYLURACIL
A novel synthesis of pyrimido[4,5-b]quinoline-2(3H),4(10H)-diones (5-deazaflavins) and analogs by the oxidative cyclization of 5,5'-arylmethylenebis(6-alkylamino-3-methyluracils), 978–81
METHYLENEAMINE
Chain-extension reactions of acetylenes. Part 4. Reaction of 1,3-dilithioacetylides with carbonyl electrophiles, hexamethylphosphoric triamide, and benzylideneaniline, 2338–45
METHYLENEBISHYDROXYARENE
Spirans. Part 13. The synthesis and orientation of spirans related to Abel's ketone (naphtho[2,1-b]furan-2(1H)-spiro-1'(2'H)-naphthalen-2'-one), 1986–93
METHYLENEHEXOPYRANOSIDE
Branched-chain sugars. Part 11. An approach to the synthesis of D-evernitrose via the addition of iodine azide to a C-methylene sugar, 2061–4
METHYLERGOLINE
Photocyclization of enamides. Part 16. A new synthesis of clavines. The stereostructure of costaclavine, 208–11
METHYLHYDROXYCARBAMATE
Studies on the preparation of N-alkyl-O-phenylhydroxylamines, 2781–6
METHYLIMIDAZOLE
Reactions of halomethanes in the vapor phase. Part 5. The reactions of imidazolines, aniils, and 1-methylimidazole with chloroform at 550°C, and a comparison with their liquid-phase reactions with trichloroacetate ion or hexachloroacetone and base, 1431–5
METHYLISOTRYPTOPHOL
Reactions of 4,5-dihydro-5-methylpyrano[4,3-b]indole-1,3-dione; a synthesis of N-methylisotryptophol, 1688–92
METHYLJOUBERTIAMINE
Applications of substituted arylacetaldehydes in the total synthesis of seco-mesembrane alkaloids. Part 1. The total synthesis of (±)-O-methyljoubertiamine, 906–10
METHYLLITHIUM
Reactions of alkyllithium compounds with aryl halides, 2617–25
METHYLMETHANOBENZAZOCINONE
Synthesis and some reactions of 3,4,5,6-tetrahydro-3,6-dimethyl-2,6-methano-3-benzazocin-1(2H)-one (2,5-dimethyl-8-oxo-6,7-benzomorphan), 2374–9
METHYLMETHYLENEAMINE
Chain-extension reactions of acetylenes. Part 4. Reaction of 1,3-dilithioacetylides with carbonyl electrophiles, hexamethylphosphoric triamide, and benzylideneaniline, 2338–45
METHYLNAPHTHOQUINONE
Quinones. Part 9. Sidechain alkylthiolation of methyl-1,4-naphthoquinones, 282–8
METHYLOXOESTRADIOL
A stereoselective total synthesis of 17-O-acetyl-14α-hydroxy-3-O-methyl-11-oxoestradiol-17β, 2793–6
METHYLOXOPYRIDINYLPYRIDINIUM
Synthetic applications of N-N linked heterocycles. Part 7. The preparation of 4-alkyl- and 4-aryl-pyridines by regiospecific attack of Grignard reagents γ to quaternary nitrogen in N-(2,6-dimethyl-4-oxopyridin-1-yl)pyridinium salts, 2480–4
METHYLPHENANTHROFURANONE
Synthetic studies on terpenoids. Part 24. Stereocontrolled synthesis of 3aβ-H,3bα-H,5aα-H,9aα-H,11aβ-H-9bβ-methylperhydrophenanthro[2,1-b]furan-7-one, an intermediate to epoxynorcafestanone, 2511–15
METHYLPYRANOINDOLONE
Reactions of 4,5-dihydro-5-methylpyrano[4,3-b]indole-1,3-dione; a synthesis of N-methylisotryptophol, 1688–92
METHYLPYRIDINE
Bridged-ring nitrogen compounds. Part 3. Synthesis of representatives of the 1,5-methano-4-benzazonine ring system, 2141–5
METHYLPYRIDINIUM
2-Pyridones and 4-pyridones by oxidative demethylation of 2- and 4-methylpyridinium cations, 1888–9
METHYLPYRIMIDINETHIONE
Synthesis of heterocyclic compounds via enamines. Part 8. Acid-catalyzed transformations in 4,4,6-trimethyl-1,4-dihydropyrimidine-2(3H)-thione derivatives and related compounds, 1013–18
METHYLPYRROLOINDOLE
The preparation of 2,3-dihydro-1H-pyrrolo[1,2-a]indole, 2,3-dihydro-9-methyl-1H-pyrrolo[1,2-a]indole, 1,2,2a,3,4,5-hexahydropyrrolo[3,2,1-jk]-carbazole, and 2,3,3a,4,5,6-hexahydro-1H-pyrido[3,2,1-jk]carbazole, 97–101
METHYLPYRROLYLPHENYLAZETIDINOL
Light-induced reactions of heteroaryl N-methylanilinomethyl ketones: formation of 3-heteroaryl-1-phenylazetidin-3-ols, 2371–3
METHYLRIBALINE
Quinoline alkaloids. Part 20. Synthesis of ptelefolone and O-methylribaline. Ring closure of epoxides of 3-prenylquinolones, 2294–9
METHYLRIBONUCLEOSIDE
Methylation study of ribonucleosides, deoxyribonucleosides, and 2'-O-methylribonucleosides with trimethylsulfonium hydroxide and trimethylsulfonium iodide. Influence of the 2'-hydroxy-groups on the reactivity of the base moieties of ribonucleosides, 2787–92
METHYLSILYL
Studies on the syntheses of heterocyclic compounds. Part 855. Cycloaddition reaction of bis(trimethylsilyl)allenedicarboxylate with homocyclic dienes, 2801–4
METHYLSILYLSTYRENE
Friedel-Crafts reactions of some vinylsilanes, 2485–9
METHYLSTYRYLSULFONE
Unusual regio- and stereochemistry in the reaction of methyl (E)- and (Z)-β-styryl sulfone with pyrrolidin-1-yl-4-tert-butylcyclohexene, 686–9
METHYLSULFONIUM
Methylation study of ribonucleosides, deoxyribonucleosides, and 2'-O-methylribonucleosides with trimethylsulfonium hydroxide and trimethylsulfonium iodide. Influence of the 2'-hydroxy-groups on the reactivity of the base moieties of ribonucleosides, 2787–92
METHYLTHIAZOLYLPHENYLAZETIDINOL
Light-induced reactions of heteroaryl N-methylanilinomethyl ketones: formation of 3-heteroaryl-1-phenylazetidin-3-ols, 2371–3
METHYLTHIO
Ring opening reactions. Part 16. Ring opening of (2,5-dimethoxy-3-thienyl)lithium and some related compounds, 1390–2
METHYLTHIOLATION
Quinones. Part 10. Side-chain methylthiolation of methylbenzoquinones, 289–92
METHYLTHIOTRIAZOLOTHIAZINETHIONE
Derivatives of 3H-1,2,3-triazolo[4,5-d][1,3]thiazine, a new heterocyclic nucleus. Some shifts of a methylene group from a nitrogen to a sulfur atom, 2009–12
METHYLTRICYCLOOCTANONE
Photochemistry of substituted cyclic enones. Part 2. 5-[Prop-2-enyl]cyclopentenones, 1516–22
METIAMIDE
Purines, pyrimidines and imidazoles. Part 53. Synthesis of some 5-halo analogs of metiamide and cimetidine, 2310–15
MEVALONIC
Biosynthesis of aromatic isoprenoids. Part 5. The preparation of 1-(3,3-dimethylallyl)-L-tryptophan and cyclo-L-alanyl-1-(3,3-dimethyl-allyl)-L-tryptophan and their nonincorporation into echinulin, 1294–8
MICHAEL
The chemistry of 4-mercaptoazetidin-2-ones. Part 2. Synthesis of bisnorpenicillins, 150–5
Ene-type reactions involving transfer of acyl groups. Addition of 4-phenyl-1,2,4-triazoline-3,5-dione to various unsaturated compounds, 843–5
Synthetic study on several eremophilane sesquiterpenes using a common intermediate, 963–77
Reactions between 3-nitrochromone and diazo alkanes; Michael additions catalyzed by diazo alkanes as nitrogen bases, 2049–53
Michael additions to α,β-unsaturated sulfoximides in two-phase systems. Kinetic resolution by means of chiral phase-transfer catalysts, 2422–4
Synthesis of 2,4-diazabicyclo[3.3.0]octane-3,7-diones and 3-thioxo-2,4-diazabicyclo[3.3.0]octan-7-one by an intramolecular Michael-type reaction. Stability of 2,4-diaza-, 4-oxa-2-aza-, and 4-thia-2-aza-bicyclo[3.3.0]octane-3,7-diones, 2497–502
MICHAELIS
Inhibitors of pyrimidine biosynthesis. Part 1. Synthesis of potential transition-state analogs of aspartate transcarbamylase, 2721–7

MICROBIAL
Studies of enzyme-mediated reactions. Part 12. Stereochemical course of the decarboxylation of (2S)-tyrosine to tyramine by microbial, mammalian, and plant systems, 31–42
MICROBIOL
Microbiological hydroxylation. Part 23. Hydroxylations of fluoro-5α-androstanones by the fungi Calonectria decora, Rhizopus nigricans, and Aspergillus ochraceus, 750–5
Microbiological transformations. Part 3. The oxidation of androstene derivatives with the fungus Cunninghamella elegans, 2535–41
MIGRATION
Ring C aromatic steroids. Part 2. Rearrangement of 16α,17α-epoxy- and 17α-hydroxy-5,7-dienes, 556–62
Terpenoids. Part 9. 10α → 9α-Methyl migration in derivatives of grandiflorenic acid, 1279–82
MO
1,3-Dipolar character of six-membered aromatic rings. Part 52. 2π + 8π cycloaddition reactions of 1-substituted 3-oxidopyridinium betaines, 1176–84
MOL
Acid-catalyzed dehydration of withanolide E, a 14α,17β,20αβ-trihydroxy steroid; a revision, 531–4
Structural studies of azacyclols derived from linear tripeptides, 809–16
The structure of bonellin and its derivatives. Unique physiologically active chlorins from the marine echurian Bonellia viridis, 1080–9
Restricted rotation about the carbon–nitrogen single bond of 1-aryl-4,6-dimethylpyrimidin-2(1H)-ones and the corresponding thiones, 1599–602
7β,8β-Epoxycardenolide glycosides of Asclepias eriocarpa, 2169–73
Novel α-methyldeoxybenzoins from the heartwood of Pterocarpus angolensis D.C.: absolute configuration and conformation of the first sesquiterpenylangolensins, and x-ray crystal structure of 4-O-α-cadinylangolensin, 2179–83
Crystal structure and absolute configuration of a new sesquiterpenoid metabolite of Fomes annosus, 7α,8β,11-trihydroxydrimane, 2196–9
Base-catalyzed reactions of α-bromo-N-benzylpropionamide and -isobutyramide. Formation of 2-aminooxazolidinones, 2249–53
The chemistry of fungi. Part 77. The synthesis of benzophenones from phthalides: x-ray crystallographic definition of a novel isobenzofuran system, 2445–9
Organoiron complexes in organic synthesis. Part 7. Regio- and stereochemistry of ring connection reactions relevant to steroid and terpene synthesis. Structure of tricarbonyl(methyl 1-[2-5-η-4-methoxy-1-methylcyclohexa-2,4-dienyl]-3-hydroxymethyl-3-methyl-2-oxocyclohexanecarboxylate)iron, 2774–80
Structure of aristone, a unique indole alkaloid from Aristotelia chilensis (Mol.) Stuntz, by x-ray crystallographic analysis, 2842–4
MONOCHLOROALKYLMERCURY
Alkylidene transfer from (monochloroalkyl)mercury(II) compounds to aromatic amines; selective C-alkylation, 1420–6
MONOSACCHARIDE
Cyano sugars. Part 4. Hypochlorite oxidation of branched-chain nitro sugars and conversion of the products into branched-chain cyano sugars, 126–8
MORPHOLINE
Some reactions of vinylene diisothiocyanate, 2717–20
MYRICANOL
Methods for the construction of linear 1,7-diarylheptanoids; synthesis of di-O-methylcentrolobol and precursors (synthetic and biosynthetic) to the meta,meta-bridged biphenyls myricanol and myricanone, 614–22
Total syntheses of the meta,meta-bridged biphenyls (±)-myricanol and myricanone, and of an isomeric biphenyl ether, a 14-oxa[7,1]metaparacyclophane, 623–8
MYRICANONE
Methods for the construction of linear 1,7-diarylheptanoids; synthesis of di-O-methylcentrolobol and precursors (synthetic and biosynthetic) to the meta,meta-bridged biphenyls myricanol and myricanone, 614–22
Total syntheses of the meta,meta-bridged biphenyls (±)-myricanol and myricanone, and of an isomeric biphenyl ether, a 14-oxa[7,1]metaparacyclophane, 623–8
NADH
NADH model reaction. Importance of hydroxy groups in the asymmetric reduction of ethyl benzoylformate, 7–10
NAPHTHACENEDIONE
Studies related to anthracyclines. Part 1. Some Diels–Alder reactions of 4a,9a-epoxy-4a,9a-dihydroanthracene-1,4,9,10-tetrone, 1007–12
NAPHTHACENEQUINONE
Chemistry of quinones. Part 6. The selective hydrolysis of α-acetoxyanthraquinones and related compounds by trifluoroacetic acid containing small amounts of water, 1592–4
NAPHTHALENE
A general and practicable synthesis of polycyclic heteroaromatic compounds. Part 3. Extension of the synthesis to 'quinone methides' of naphthalene, phenanthrene, and benzene, 1233–9
Mechanism of diol formation in the reaction of benzylic Grignard reagents with aldehydes, 2631–6
NAPHTHALENEDICARBOXALDEHYDE
Synthesis of potentially basic hydrocarbons by sulfur extrusion and/or bis-Wittig reactions. Two syntheses of benz[5,6]indeno[2,-1-a]phenalene and a new synthesis of dibenzo[de,mn]naphthacene (zethrene), 2812–17
NAPHTHALENIC
Base catalyzed rearrangements involving ylide intermediates. part 6. The rearrangements of diallyl- and allylpropynylammonium cations in protic media, 1477–86
NAPHTHALENONE
1,3,4,5-Tetrahydrobenz[cd]indoles and related compounds. Part IV. Experiments towards the synthesis of the ergot alkaloids and related structures. Part 2. New alkylations on α-carbon and nitrogen in α-amido ketones, 2126–33
Synthesis and ring expansion of 4-(2-dimethylaminoethyl)-4-methylnaphthalen-1(4H)-one and its 2,3-dihydro derivative and some reactions of the lactam products, 2380–2
NAPHTHOFURAN
A new synthetic approach towards adriamycin, 643–7
NAPHTHOFURANONE
A new synthetic approach towards adriamycin, 643–7
NAPHTHOL
Spirans. Part 12. Stereochemical control in the oxidative cyclization of bisnaphthols, 1978–85
NAPHTHOPHENANTHROLINE
A general and practicable synthesis of polycyclic heteroaromatic compounds. Part 3. Extension of the synthesis to 'quinone methides' of naphthalene, phenanthrene, and benzene, 1233–9
NAPHTHOPYRAZOLINEDIONE
Adducts from quinones and diazoalkanes. Part 9. The adduct from 2-methyl-1,4-naphthoquinone and diazoethane and the derived secondary carbanion: regioisomerism in carbanion–quinone additions, 1994–2000
NAPHTHOPYRONE
Structural elucidation of the nigerones, four new naphthopyrones from cultures of Aspergillus niger, 2474–9
NAPHTHOPYRYLIUM
Heterocycles in organic synthesis. Part 36. An alternative to the Gattermann reaction for the conversion of anilines into thiocyanates, 865–8
NAPHTHOQUINOLYLETHANE
Adducts from quinones and diazoalkanes. Part 9. The adduct from 2-methyl-1,4-naphthoquinone and diazoethane and the derived secondary carbanion: regioisomerism in carbanion–quinone additions, 1994–2000
NAPHTHOQUINONE
Further conversions of naphthoquinones into dinaphthofuranquinones, 90–2
Quinones. Part 9. Sidechain alkylthiolation of methyl-1,4-naphthoquinones, 282–8
Ebenaceae extractives. Part 8. The structure of diosquinone and reactions of related quinone epoxides, 1161–4
Mechanism of light-induced reductive acetylation of 1,2-naphthoquinone with acetalaldehyde, 1414–19
Chemistry of quinones. Part 6. The selective hydrolysis of α-acetoxyanthraquinones and related compounds by trifluoroacetic acid containing small amounts of water, 1592–4
Reduction of ortho-quinones to dihydrodiols, 1920–3
New dyes based on 3-arylbenzo- and -naphtho-1,4-thiazines, 2923–32
NAPHTHOTHIAZINEQUINONE
New dyes based on 3-arylbenzo- and -naphtho-1,4-thiazines, 2923–32
NAPHTHYLBENZAMIDE
Electrochemical reactions. Part 23. Intramolecular radical

NAPHTHYLBENZAMIDE(contd)
substitution during the reduction of 2-halo-N-methyl-N-naphthylbenzamides, 657–60
NAPHTHYLLITHIUM
Polycyclic fluoroaromatic compounds. Part 10. Nucleophilic replacement of fluorine in heptafluoro-2-naphthyllithium, 2494–6
NEAMINE
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 15. The selective modification of neamine by radical-induced deamination, 2665–9
NEIGHBORING
Studies on steroids. Part 47. Neighboring group effects. Part 1. Effect of α-hydroxy and acetoxy groups on the ring opening of steroidal 4,5-epoxides, 2503–6
Studies on steroids. Part 48. Neighboring group effects. Part 2. Effect of epoxide on the hydrolysis of adjacent acetate groups, 2507–10
NEOPLASM
Isomerization of 2-aryl-4-oxo-2,3-dihydrobenzopyrano[2,3-d]pyrimidines to 2-aryl-4-hydroxy-5H-benzopyrano[2,3-d]pyrimidines, 1335–7
NEORAUNONE
Structure and synthesis of isoflavonoid analogs from Neorautanenia amboensis Schinz, 1804–9
NEORAUTANENIA
Structure and synthesis of isoflavonoid analogs from Neorautanenia amboensis Schinz, 1804–9
NEORAUTANOL
Structure and synthesis of isoflavonoid analogs from Neorautanenia amboensis Schinz, 1804–9
NEORAUTENANE
Structure and synthesis of isoflavonoid analogs from Neorautanenia amboensis Schinz, 1804–9
NEORAUTENANOL
Structure and synthesis of isoflavonoid analogs from Neorautanenia amboensis Schinz, 1804–9
NEPETEFOLINOL
X-ray structure determination of methoxynepetaefolin and nepetaefolinol, labdane diterpenoids from Leonotis nepetaefolia R.Br, 264–8
NICKEL
Pyranoside derivatives of 3-deoxyald-2-ulosonic acids, 1971–7
NICOTINE
Transformations involving the pyrrolidine ring of nicotine, 579–85
NICOTYRINE
Addition reactions of heterocyclic compounds. Part 70. Formation of quinolizines and indolizines from nicotine derivatives and acetylenic esters, 78–80
NIGERONE
Structural elucidation of the nigerones, four new naphthopyrones from cultures of Aspergillus niger, 2474–9
NISIN
Lanthionine chemistry. Part 5. Synthesis of cyclic nonsymmetrical lanthionyl peptides, 1965–70
NITRATION
Pyrazolo[3,4-b]pyridines. The preparation of 1-protected-1H-pyrazolo[3,4-b]pyridines and attempts to remove the 1-substituent. Some reactions of 1-benzyl-1H-pyrazolo[3,4-b]pyridine and its 7-oxide, 938–42
The nitration of imidazo[1,5-a]pyridines, 959–62
C-Nucleoside studies. Part 10. A new synthesis of 3-(2,3,5-tri-O-benzyl-β-D-ribofuranosyl)pyrazole and its conversion into 4-nitro-3(5)-β-D-ribofuranosylpyrazole, 2567–71
NITRENE
Competitive cyclizations of singlet and triplet nitrenes. Part 8. The 1-(2-nitrenophenyl)pyrazoles and related systems, 982–94
Competitive cyclizations of singlet and triplet nitrenes. Part 9. 2-(2-Nitrenophenyl)benzothiazoles and -benzimidazoles, 2387–91
NITRENOPHENYL
Competitive cyclizations of singlet and triplet nitrenes. Part 8. The 1-(2-nitrenophenyl)pyrazoles and related systems, 982–94
NITRILE
A novel reduction of activated olefins by lithium amides, 1267–9
The conversion of aldehydes and ketones via their 2,4,6-triisopropylbenzenesulfonyl hydrazones into nitriles containing one additional carbon atom, 1487–92
Enamidines. Part 1. Synthesis of enamidines and dihydrotriazines by the reaction of organolithium and organomagnesium compounds with aromatic nitriles, 2392–7
The chemistry of nitrilium salts. Part 1. Acylation of phenols and phenol ethers with nitriles and trifluoromethanesulfonic acid, 2894–900
NITRITE
Nitrosation and nitrosylation of hemoproteins and related compounds. Part 4. Pentacoordinate nitrosylprotoheme as the pigment of cooked cured meat. Direct evidence from ESR spectroscopy, 1706–10
NITRO
Photochemical reactions of amines on nitrophenazines. Part 2. Photoreduction versus photosubstitution, 191–6
Branched-chain sugars. 9. Characterization of the stereoisomeric methyl 3-deoxy-3-C-methyl-3-nitropentopyranosides resulting from the condensation of nitroethane with L-methoxydiglycoaldehyde and the x-ray crystal structure of methyl 2,4-di-O-acetyl-3-deoxy-3-C-methyl-3-nitro-β-D-xylopyranoside, 995–1002
Radical-nucleophilic substitution ($S_{RN}1$) reactions: preparation and reactions of α-nitrosulfides, 1407–13
Reactions between 3-nitrochromone and diazo alkanes; Michael additions catalyzed by diazo alkanes as nitrogen bases, 2049–53
Branched-chain sugars. Part 10. Some approaches to the synthesis of L-evernitrose (2,3,6-trideoxy-3-C,4-O-dimethyl-3-nitro-L-arabinohexopyranose), 2054–60
Synthesis and reactions of azidobenzothiazoles and -benzo[b]thiophenes. Novel thiazolo[4,5-g]benzoxazoles and dihydrothieno[3,2-g]benzoxazoles, 2358–61
NITROARABINOPYRANOSE
Branched-chain sugars. Part 10. Some approaches to the synthesis of L-evernitrose (2,3,6-trideoxy-3-C,4-O-dimethyl-3-nitro-L-arabinohexopyranose), 2054–60
NITROBENZOTHIAZOLE
Synthesis and reactions of azidobenzothiazoles and -benzo[b]thiophenes. Novel thiazolo[4,5-g]benzoxazoles and dihydrothieno[3,2-g]benzoxazoles, 2358–61
NITROCHROMONE
Reactions between 3-nitrochromone and diazo alkanes; Michael additions catalyzed by diazo alkanes as nitrogen bases, 2049–53
NITROETHANE
Branched-chain sugars. 9. Characterization of the stereoisomeric methyl 3-deoxy-3-C-methyl-3-nitropentopyranosides resulting from the condensation of nitroethane with L-methoxydiglycoaldehyde and the x-ray crystal structure of methyl 2,4-di-O-acetyl-3-deoxy-3-C-methyl-3-nitro-β-D-xylopyranoside, 995–1002
NITROGEN
Ring opening or rearrangement versus N-oxidation in the action of peracids upon pyrrolo[2,3-b]pyridines, pyrrolo[2,3-b]pyrazines, and triazolo[1,5-a-]- and triazolo[4,3-a]pyrazine. Some chemical and spectroscopic properties of the triazolopyrazines and their N-oxides, 506–11
Reactions of spiro-indazoles containing keto-groups. Syntheses of benz[a]aceanthrylenes, naphth[2,1-a]aceanthrylenes, and fluoranthenes, 1944–9
Novel conversions of benzo[b]thiophen-3(2H)-ones into 1,2-benzisothiazole and tetrahydro-1,2-benzothiazepin-5-one systems via sulfimide intermediates, 2830–4
NITROMETHYL
Cyano sugars. Part 4. Hypochlorite oxidation of branched-chain nitro sugars and conversion of the products into branched-chain cyano sugars, 126–8
NITRONE
Ketene. Part 17. Addition reactions of ketenes with N-phenyl nitrones, 1700–5
NITROOLEFIN
Synthesis of 3-(polyacetoxyalkyl)pyrroles from 3-aminocrotonic esters and open-chain sugar nitro olefins, 1199–205
NITROPENTOPYRANOSIDE
Branched-chain sugars. 9. Characterization of the stereoisomeric methyl 3-deoxy-3-C-methyl-3-nitropentopyranosides resulting from the condensation of nitroethane with L-methoxydiglycoaldehyde and the x-ray crystal structure of methyl 2,4-di-O-acetyl-3-deoxy-3-C-methyl-3-nitro-β-D-xylopyranoside, 995–1002
NITROPHENAZINE
Photochemical reactions of amines on nitrophenazines. Part 2. Photoreduction versus photosubstitution, 191–6
NITROPHENYL
Reaction of 1,3-dipoles with 3-pyrrolidino-2-benzopyran-1-one, 846–8

NITROPHENYLCARBAMOYL
Reaction of 1,3-dipoles with 3-pyrrolidino-2-benzopyran-1-one, 846-8
NITROPHENYLHYDRAZONE
A novel hydrazino-transfer reaction to a saturated carbon: direct conversion of substituted acetophenone and aliphatic ketone 4-nitrophenylhydrazones into 1,2-bishydrazones. Reactions of mercury(II) acetate with nitrogen compounds. Part 6, 2218-21
NITROPROPANIDE
Radical-nucleophilic substitution ($S_{RN}1$) reactions: preparation and reactions of α-nitrosulfides, 1407-13
NITROPROTOPORPHYRIN
Nitrosation and nitrosylation of hemoproteins and related compounds. Part 3. Attack at the vinyl groups of protoporphyrin dimethyl ester. X-ray analysis of 8^1(E)-8^2-nitroprotoporphyrin dimethyl ester, 490-4
NITRORIBOFURANOSYLPYRAZOLE
C-Nucleoside studies. Part 10. A new synthesis of 3-(2,3,5-tri-O-benzyl-β-D-ribofuranosyl)pyrazole and its conversion into 4-nitro-3(5)-β-D-ribofuranosylpyrazole, 2567-71
NITROSACETYLAMINO
Pyrazolopyridines. Part 5. Preparation and reactions of pyrazolo[3,-4-c]pyridines, 2398-404
NITROSATION
Nitrosation and nitrosylation of hemoproteins and related compounds. Part 3. Attack at the vinyl groups of protoporphyrin dimethyl ester. X-ray analysis of 8^1(E)-8^2-nitroprotoporphyrin dimethyl ester, 490-4
NITROSOACETYLAMINOPYRIDINE
Pyrazolopyridines. Part 5. Preparation and reactions of pyrazolo[3,-4-c]pyridines, 2398-404
NITROSOBENZENE
Thermolysis of o-alkylnitrosobenzenes. Unusually ready [1,5] hydrogen shift involving a nitroso group, 1365-9
NITROSOCARBONYL
The reaction of nitrosocarbonyl compounds with 2,5-disubstituted furans. Synthesis of 1,4,2-dioxazine and 1,4,2-dioxazole derivatives, 2408-16
NITROSYL
Preparation and dienophilic reactions of nitrosyl cyanide, 1587-91
NITROSYLPROTOHEME
Nitrosation and nitrosylation of hemoproteins and related compounds. Part 4. Pentacoordinate nitrosylprotoheme as the pigment of cooked cured meat. Direct evidence from ESR spectroscopy, 1706-10
NMR
Carbon-13 nuclear magnetic resonance assignments and biosynthesis of the mycotoxin ochratoxin A, 52-4
2,2'-Bridged biphenyls with 12-membered heterocyclic bridging rings. Part 1. Tetrabenzo[b,d,h,j][1,6]diazacyclododecines, 107-12
Photocyclization of enamides. Part 16. A new synthesis of clavines. The stereostructure of costaclavine, 208-11
Reactions involving fluoride ion. Part 19. Observable perfluorocycloalkyl anions, 435-9
Syntheses and properties of methyl-substituted benzannelated tetradehydro[13]annulenones, 466-72
Synthesis and properties of a trimethyltetradehydro[17]annulenone and its benzannelated derivatives, 473-80
Isomerism and lead(IV) acetate oxidation reactions of p-substituted phenylosazones of some substituted glyoxals and 1,2-diketones. Reactions of metallic acetates with nitrogen compounds. Part 5, 744-9
Microbiological hydroxylation. Part 23. Hydroxylations of fluoro-5α-androstanones by the fungi Calonectria decora, Rhizopus nigricans, and Aspergillus ochraceus, 750-5
N-Halo compounds. Part 7. Synthesis and iodine-catalyzed rearrangement to 6-chloroimino-1-azacyclohexadienes of 4-substituted 2-(dichloroamino)-3,5,6-trifluoropyridines, 817-21
Structural investigations of 3-acylpyrrolidine-2,4-diones by nuclear magnetic resonance spectroscopy and x-ray crystallography, 1057-65
Polyhaloaromatic compounds. Part 42. Carbon-13 NMR spectra of polyhalopyridines and pyrimidines, 1370-80
Examination of the stereochemistry of hydrogenolysis of steroidal C-3 substituents using deuterium NMR spectroscopy, 1381-3
Restricted rotation about the carbon-nitrogen single bond of 1-aryl-4,6-dimethylpyrimidin-2(1H)-ones and the corresponding thiones, 1599-602
Preparation and stereochemistry of some 1,1-disubstituted buta-1,3-dienes, 1756-60
Pyranoside derivatives of 3-deoxyald-2-ulosonic acids, 1971-7
Spirans. Part 13. The synthesis and orientation of spirans related to Abel's ketone (naphtho[2,1-b]furan-2(1H)-spiro-1'(2'H)-naphthalen-2'-one), 1986-93
Polymeric proanthocyanidins. Stereochemistry, structural units, and molecular weight, 2278-86
Studies in the xanthone series. Part 13. Structural and synthetic studies on toxyloxanthone B, 2353-7
Reductive deamination of primary amines, 2554-60
Addition of thallium triacetate to $PGF_{2\alpha}$ methyl ester and related compounds in acetic acid. Nuclear magnetic resonance spectral study of novel dioxatricyclic and oxabicyclic products, 2572-80
Reactions of androsta-3,5-dienes with m-chloroperbenzoic acid, 2581-6
NONATRIACONTAPEPTIDE
Tritiated peptides. Part 8. Synthesis of [3,5-$^3H_2$-Tyr^2]-, [4-^{3}H-Phe^7]-, and [3,5-$^3H_2$-Tyr^{23}]-human corticotropin, 462-5
NOR
Reaction of protoberberine-type alkaloids. Part 13. Biogenetic conversion of protoberberine alkaloids into phthalideisoquinoline alkaloids, 919-26
NORANDROSTANECARBONYL
Synchronous skeletal rearrangement of D-nor-5α-androstane-16α- and -16β-carbonyl m-chlorobenzoyl peroxides, 943-6
NORANDROSTENONE
Acid-catalyzed decomposition of β,γ-unsaturated diazo-ketones: preparation of 4,4-dimethyl-D-norsteroidal systems from pimaradiene and sandaracopimaradiene precursors, 1924-7
NORBORNADIENE
Preparation and trapping of sulfenic acids, 237-9
Free radical reactions of halogenated bridged polycyclic compounds. Part 18. The addition of chlorine and bromine to 1,2,3,4,7,7-hexachloro-5-methylnorbornadiene, 302-5
NORBORNENE
Stereochemistry of Diels-Alder reactions of allenic sulfones; transfer of asymmetry from allenic to norbornene systems, 1646-9
NORBORNYLCARBOXYLIC
Product formation and identification in the reaction of 6-endo-hydroxy-5-exo-iodo-3-exo-phenylnorborn-2-endo-ylcarboxylic acid γ-lactone with silver toluene-p-sulfonate, 1578-82
NORCORALYNE
Reaction of protoberberine-type alkaloids. Part 13. Biogenetic conversion of protoberberine alkaloids into phthalideisoquinoline alkaloids, 919-26
NORESTRATRIENOL
Total synthesis of substituted (±)-6,6-dimethyl-D-norestra-1,3,5(10)-trien-17β-ols and their 9β-isomers, 448-56
NORKETONE
Terpenoids. Part 9. 10α → 9α-Methyl migration in derivatives of grandiflorenic acid, 1279-82
NORSTEROID
Acid-catalyzed decomposition of β,γ-unsaturated diazo-ketones: preparation of 4,4-dimethyl-D-norsteroidal systems from pimaradiene and sandaracopimaradiene precursors, 1924-7
NUCLEOPHILE
Mesoionic compounds. Part 10. A study of the reactions of 3-(3-pyridyl)sydnone with some nucleophilic reagents, 20-6
Conjugate, homoconjugate, and 1,2-additions of acetylene nucleophiles and their application to prostaglandin synthesis, 2346-52
Michael additions to α,β-unsaturated sulfoximides in two-phase systems. Kinetic resolution by means of chiral phase-transfer catalysts, 2422-4
The chemistry of o-phenylenediisothiocyanate. Part 3. Studies on the syntheses of heterocyclic compounds, 2608-11
NUCLEOPHILIC
Mesoionic compounds. Part 10. A study of the reactions of 3-(3-pyridyl)sydnone with some nucleophilic reagents, 20-6
Heterocycles in organic synthesis. Part 42. Preparation of azides, phthalimides, and sulfonamides from primary amines, 849-50
Radical-nucleophilic substitution ($S_{RN}1$) reactions: preparation and reactions of α-nitrosulfides, 1407-13
Reactions involving fluoride ion. Part 20. Competition between isomerization and nucleophilic attack on a perfluoroalkene, 1551-4

NUCLEOPHILIC(contd)
Polycyclic fluoroaromatic compounds. Part 9. Preparation and some reactions of decafluorofluoranthene, 1726–30
The synthesis and reactions of sterically constrained pyrylium and pyridinium salts, 1895–900
Preparation and some reactions of 2-oxatricyclo[3.3.0.0^{4,6}]oct-7-en-3-one: synthesis of 9-deoxa-9,10-dehydroprostaglandin D_2, 2093–7
Polycyclic fluoroaromatic compounds. Part 10. Nucleophilic replacement of fluorine in heptafluoro-2-naphthyllithium, 2494–6
Photobromination of carbohydrate derivatives. Part 5. Preparation and reactions of (5S)-1,2,3,4-tetra-O-acetyl-5-bromo-β-D-xylopyranose; a new type of 'double-headed' nucleoside, 2767–73
NUCLEOSIDE
One-step synthesis of 5'-azido nucleosides, 306–10
The synthesis of thieno[2,3-d]pyrimidine nucleosides related to the naturally occurring nucleosides cytidine and uridine, 1853–8
Purines, pyrimidines and imidazoles. Pasrt 52. New syntheses of some 1-β-D-arabinofuranosylaminoimidazoles and of related purine nucleosides, including 9-β-D-arabinofuranosyladenine, 2304–9
C-Nucleoside studies. Part 9. Synthesis of 3(5)-α-D-ribofuranosylpyrazole and related compounds, 2561–6
Synthetic C-glycosyl nucleosides. A new approach, 2683–5
Purines, pyrimidines, and imidazoles. Part 56. Some aminoimidazolecarboxamidines and derived adenines, 2728–31
Studies on organic fluorine compounds. Part 35. Trifluoromethylation of pyrimidine and purine nucleosides with trifluoromethyl–copper complex, 2755–62
Photobromination of carbohydrate derivatives. Part 5. Preparation and reactions of (5S)-1,2,3,4-tetra-O-acetyl-5-bromo-β-D-xylopyranose; a new type of 'double-headed' nucleoside, 2767–73
Methylation study of ribonucleosides, deoxyribonucleosides, and 2'-O-methylribonucleosides with trimethylsulfonium hydroxide and trimethylsulfonium iodide. Influence of the 2'-hydroxy-groups on the reactivity of the base moieties of ribonucleosides, 2787–92
NUCLEOTIDE
Purines, pyrimidines, and imidazoles. Part 54. Interconversion of some intermediates in the de novo biosynthesis of purine nucleotides, 2316–21
OCHRATOXIN
Carbon-13 nuclear magnetic resonance assignments and biosynthesis of the mycotoxin ochratoxin A, 52–4
OCTADIENETRICARBOXYLIC
A new tricarboxylic acid anhydride from Paecilomyces variotii, 2134–5
OCTADIYNE
Ring opening reactions. Part 16. Ring opening of (2,5-dimethoxy-3-thienyl)lithium and some related compounds, 1390–2
OCTAETHYL
Meso-substitution reactions of rhodium(III)-octaethylporphyrins with organolithium reagents, 1641–5
OCTALONE
Synthetic study on several eremophilane sesquiterpenes using a common intermediate, 963–77
Further synthetic investigations in the eremophilane sesquiterpene group. Synthesis of (±)-isovalencenic acid, (±)-isovalencenol, and their (Z)-isomers, and experiments directed towards the synthesis of tessaric acid, 1752–5
OCTANAMIDO
The bacterial pigment from Pseudomonas lemonnieri. Part 1. Structure of a degradation product, 3-n-octanamidopyridine-2,5,6-trione, by x-ray crystallography, 1782–7
OCTANAMIDOPYRIDINETRIONE
The bacterial pigment from Pseudomonas lemonnieri. Part 1. Structure of a degradation product, 3-n-octanamidopyridine-2,5,6-trione, by x-ray crystallography, 1782–7
OCTANOATE
Convenient syntheses of alkyl β-resorcylate derivatives, 2272–7
OCTAPEPTIDE
Amino acids and peptides. Part 44. Synthesis of protected peptides related to sequence 23–30 of bovine insulin B-chain, 2797–800
OCTATETRAENE
Fluoro olefin chemistry. Part 12. Some reactions of 3,4-dihalotetrafluorocyclobutenes: a synthesis of perfluorocyclooctatetraene, 122–5
OCTATRIENAMINE
Base catalyzed rearrangements involving ylide intermediates. Part 7. The rearrangements of allyl(pentadienyl)- and propynyl(pentadienyl)-ammonium cations. The [5,4] sigmatropic rearrangement, 2033–48
OCTULOPYRANOSIDONATE
Pyranoside derivatives of 3-deoxyald-2-ulosonic acids, 1971–7
OCTULOSONATE
Pyranoside derivatives of 3-deoxyald-2-ulosonic acids, 1971–7
OCTYL
Improved methods for conversion of primary amines into bromides 1890–4
OCTYLDIAZABICYCLOOCTANEDIONE
Synthesis of 2,4-diazabicyclo[3.3.0]octane-3,7-diones and 3-thioxo-2,4-diazabicyclo[3.3.0]octan-7-one by an intramolecular Michael-type reaction. Stability of 2,4-diaza-, 4-oxa-2-aza-, and 4-thia-2-aza-bicyclo[3.3.0]octane-3,7-diones, 2497–502
OCTYLOXYPYRIDONE
N-Oxides and related compounds. Part 60. Novel thermal and photochemical rearrangements of N-substituted 2-pyridones, 2743–54
OIL
Chemistry of hop constituents. Part 42. The formation and characterization of sesquiterpene episulfides in the essential oil of hops, 311–13
OLEFIN
A novel reduction of activated olefins by lithium amides, 1267–9
OLEFINATION
Polymer-supported phosphonates. Olefins from aldehydes, ketones, and dioxolanes by means of polymer supported phosphonates, 2516–19
OLIGO
Synthesis and conformation in the solid state of oligopeptides with the L-alanyl-L-leucylglycyl sequence in which some glycines are replaced with N-methylglycines, 2808–11
OLIGOMERIZATION
Reactions involving fluoride ion. Part 17. Oligomers of perfluorocyclobutene, 426–8
Reactions involving fluoride ion. Part 18. Derivatives of perfluoro cycloalkenes, 429–34
Cooligomerization of butadiene and carbon dioxide catalyzed by tertiary phosphine–palladium complexes, 693–8
OLIGOPEPTIDE
Synthesis and conformation in the solid state of oligopeptides with the L-alanyl-L-leucylglycyl sequence in which some glycines are replaced with N-methylglycines, 2808–11
OLIGOSACCHARIDE
Artificial carbohydrate antigens: synthesis of rhamnose trisaccharide and disaccharide haptens common to Shigella flexneri O-antigens, 297–301
OLIVETOLCARBOXYLATE
Convenient syntheses of alkyl β-resorcylate derivatives, 2272–7
OPEN
Methods for the construction of linear 1,7-diarylheptanoids; synthesis of di-O-methylcentrolobol and precursors (synthetic and biosynthetic) to the meta,meta-bridged biphenyls myricanol and myricanone, 614–22
OPENING
Reaction of monothio derivatives of 2-heteroarylideneindene-1,3(2H)-diones with quinones, 1070–5
Ring opening reactions. Part 16. Ring opening of (2,5-dimethoxy-3-thienyl)lithium and some related compounds, 1390–2
Heterocycles in organic synthesis. Part 40. Oxidation of 2,4,6-triarylpyridinium betaines and 2,4,6-triarylpyridinium perchlorates by hydrogen peroxide, 1870–8
ORGANOLITHIUM
Mesoionic compounds. Part 10. A study of the reactions of 3-(3-pyridyl)sydnone with some nucleophilic reagents, 20–6
Meso-substitution reactions of rhodium(III)-octaethylporphyrins with organolithium reagents, 1641–5
Enamidines. Part 1. Synthesis of enamidines and dihydrotriazines by the reaction of organolithium and organomagnesium compounds with aromatic nitriles, 2392–7
Sulfur nitrides in organic chemistry. Part 8. Reaction of tetrasulfur tetranitride with Grignard reagents and organolithium compounds, 2417–21
Synthetic applications of N–N linked heterocycles. Part 7. The preparation of 4-alkyl- and 4-aryl-pyridines by regiospecific attack of Grignard reagents γ to quaternary nitrogen in N-(2,6-

ORGANOLITHIUM(contd)
dimethyl-4-oxopyridin-1-yl)pyridinium salts, 2480–4
ORGANOMAGNESIUM
Enamidines. Part 1. Synthesis of enamidines and dihydrotriazines by the reaction of organolithium and organomagnesium compounds with aromatic nitriles, 2392–7
ORGANOMETALLIC
Enamidines. Part 1. Synthesis of enamidines and dihydrotriazines by the reaction of organolithium and organomagnesium compounds with aromatic nitriles, 2392–7
ORIENTALINE
Alkaloid formation through N-oxide intermediates; regioselective synthesis of (±)-corytuberine by redox reaction, 629–32
ORIENTALINONE
Alkaloid formation through N-oxide intermediates; regioselective synthesis of (±)-corytuberine by redox reaction, 629–32
ORSELLINATE
Long-chain phenols. Part 16. A novel synthesis of homologous orsellinic acids and their methyl ethers, 1658–66
Convenient syntheses of alkyl β-resorcylate derivatives, 2272–7
ORSINOLCARBOXYLATE
Convenient syntheses of alkyl β-resorcylate derivatives, 2272–7
OXAADAMANTANE
Adamantane chemistry. Part 3. Abnormal hypoiodite reactions of 2-substituted adamantan-2-ols; synthetic routes to 4-oxahomo- and 2-oxaadamantanes, and 7-substituted-bicyclo[3.3.1]nonan-3-ols, 410–18
OXAAZABICYCLOHEPTANONE
Total synthesis of β-lactamase inhibitors based on the 4-oxa-1-azabicyclo[3.2.0]heptan-7-one ring system, 2222–7
OXABICYCLOAMINE
Carbonyl transposition and regio- and stereo-specific syntheses of new alcohols, aminoalcohols, and ketones in the monoterpenoid 1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane, 2626–30
OXABICYCLOOCTANONE
Carbonyl transposition and regio- and stereo-specific syntheses of new alcohols, aminoalcohols, and ketones in the monoterpenoid 1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane, 2626–30
OXABICYCLOOCTENONE
S_N' reactions on some cyclopentene derivatives employing simple nucleophiles and organocuprate reagents, 1847–52
OXADIAZABICYCLOHEPTENYL
Studies related to penicillins. Part 19. Alkylations of (3R-3-((1S,5R)-3-benzyl-7-oxo-4-oxa-2,6-diazabicyclo[3.2.0]hept-2-en-6-yl)-4,4-dimethylthietan-2-one, 388–94
OXADIAZABICYCLOHEPTENYLMETHYLTHIETANONE
Studies related to penicillins. Part 19. Alkylations of (3R-3-((1S,5R)-3-benzyl-7-oxo-4-oxa-2,6-diazabicyclo[3.2.0]hept-2-en-6-yl)-4,4-dimethylthietan-2-one, 388–94
OXADIAZABICYCLOHEPTENYLTHIETANONE
Studies related to penicillins. Part 19. Alkylations of (3R-3-((1S,5R)-3-benzyl-7-oxo-4-oxa-2,6-diazabicyclo[3.2.0]hept-2-en-6-yl)-4,4-dimethylthietan-2-one, 388–94
OXADIAZOLE
The reaction of para-substituted β-aminocinnamonitriles with benzonitrile oxides, 1635–40
OXALOACETATE
Pyranoside derivatives of 3-deoxyald-2-ulosonic acids, 1971–7
OXAMETAPARACYCLOPHANE
Total syntheses of the meta,meta-bridged biphenyls (±)-myricanol and myricanone, and of an isomeric biphenyl ether, a 14-oxa[7,1]metaparacyclophane, 623–8
OXATRIAZASPIRONONENECARBOXYLATE
New heterospiro-ring systems by condensation of some heterocyclic o-dicarboxylates with 1,3-diphenylguanidine, 1667–70
OXAZATRICYCLOTRIDECAPENTADIENONE
Reactions of the sodium salts of some heterocyclic β-ketoesters with dimethyl acetylenedicarboxylate, 1251–6
OXAZINE
Methods for the construction of linear 1,7-diarylheptanoids; synthesis of di-O-methylcentrolobol and precursors (synthetic and biosynthetic) to the meta,meta-bridged biphenyls myricanol and myricanone, 614–22
OXAZINONE
Selective hydrogenation of 4,5-dihydro-1,3-oxazin-6-ones to carboxaldehyde derivatives; chemical differentiation between acylazetidin-2-ones and the corresponding isomeric oxazin-6-ones, 378–80
Reaction of benzo[c]cinnolinium-5-(N-acyl- and N-benzimidoimides) with diphenylcyclopropenone, 1147–9
OXAZIRIDINE
Asymmetric synthesis at nitrogen by oxidation of imines with m-chloroperbenzoic acid in the presence of optically active carbinols. Absolute stereochemistry of chiral alcohol–imine–peracid solvates, 2152–61
OXAZOLIDINONE
Base-catalyzed reactions of α-bromo-N-benzylpropionamide and -isobutyramide. Formation of 2-aminooxazolidinones, 2249–53
OXAZOLINE
Ketenimines as intermediates to heterocycles. Part 2. 2-Phenyliminio-3,4,5-triphenyl-1,3-oxazoline, 385–7
OXAZOLINONE
1,3,4,5-Tetrahydrobenz[cd]indoles and related compounds. Part IV. Experiments towards the synthesis of the ergot alkaloids and related structures. Part 2. New alkylations on α-carbon and nitrogen in α-amido ketones, 2126–33
OXAZOLINYL
Regioselective nucleophilic addition of organolithium compounds to 3-(4,4-dimethyloxazolin-2-yl)pyridine, 2070–6
OXAZOLINYLPYRIDINE
Regioselective nucleophilic addition of organolithium compounds to 3-(4,4-dimethyloxazolin-2-yl)pyridine, 2070–6
OXAZOLIUM
The synthesis of thiophenium and of oxazolium salts from diazoketones, 1185–93
OXAZOLONE
The preparation and reactions of 2-benzyloxy-4-benzylideneoxazol-5-one, 858–64
OXETANE
Heterocyclic polyfluoro-compounds. Part 33. Photochemical oxetane formation from fluoro ketones and perfluoro aldehydes and 1,2-difluoroethylene, 2258–67
Heterocyclic polyfluoro compounds. Part 33. Competing 1,2- and 1,4-photochemical addition of hexafluorobiacetyl to 1,2-difluoroethylene, 2523–6
OXIDATIVE
Benzodioxanes by oxidative phenol coupling. Synthesis of silybin, 775–8
Oxidative displacement of hypervalent iodine from alkyl iodides, 822–7
Oxidative coupling of phenols and phenolic ethers. Part 4. Synthesis of dibenz[d,f]azonines and a dibenz[d,f]azecine via direct coupling, 1104–8
Biosynthesis of porphyrins and related macrocycles. Part 13. Structure of the protoporphyrin isomer derived from coproporphyrinogen IV by the action of beef-liver coproporphyrinogenase: synthesis of protoporphyrin XIII, 1283–9
OXIDE
The reaction between cyanide ion and nitrones; a new imidazole synthesis, 244–8
Alkaloid formation through N-oxide intermediates; regioselective synthesis of (±)-corytuberine by redox reaction, 629–32
N-Chloro- and NN-dichloro derivatives of some phosphinic amides: preparation and reactions with anthracene, anisole, and triphenylarsine, 705–11
Reaction of 1,3-dipoles with 3-pyrrolidino-2-benzopyran-1-one, 846–8
Pyrazolo[3,4-b]pyridines. The preparation of 1-protected-1H-pyrazolo[3,4-b]pyridines and attempts to remove the 1-substituent. Some reactions of 1-benzyl-1H-pyrazolo[3,4-b]pyridine and its 7-oxide, 938–42
Preparation of 2-arylmethylene-5-methylbenzo[b]thiophen-3(2H)-one 1-oxides, 1,1-dioxides, spiroepoxides, 1-oxide spiroepoxides, and 1,1-dioxide spiroepoxides, 1194–8
The reaction of para-substituted β-aminocinnamonitriles with benzonitrile oxides, 1635–40
Stereochemical and mechanistic aspects of sulfoxide, epoxide, arene oxide, and phenol formation by photochemical oxygen atom transfer from azaaromatic N-oxides, 1693–9
(+)- and (−)-Benzo[a]pyrene 7,8-oxide: synthesis, absolute stereochemistry, and stereochemical correlation with other mammalian metabolites of benzo[a]pyrene, 2112–16
Carbonyl transposition and regio- and stereo-specific syntheses of new alcohols, aminoalcohols, and ketones in the monoterpenoid 1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane, 2626–30
Polyhaloaromatic compounds. Part 44. Reactions of enamines with polyhalopyridines and their N-oxides, 2709–16

OXIDE(contd)
Photochemistry of methoxy-substituted quinoline and isoquinoline N-oxides, 2738–42
OXIDN
Cyano sugars. Part 4. Hypochlorite oxidation of branched-chain nitro sugars and conversion of the products into branched-chain cyano sugars, 126–8
Oxidation of enamine esters with lead tetraacetate. Part 1. Products from some N-alkylaminofumarates, 156–62
β-Lactam antibiotics. Part 2. New methods of cyclizing hydrazinothioazetidinones to cephem ring systems, 233–6
Syntheses and properties of methyl-substituted benzannelated tetradehydro[13]annulenones, 466–72
Synthesis and properties of a trimethyltetradehydro[17]annulenone and its benzannelated derivatives, 473–80
Ring opening or rearrangement versus N-oxidation in the action of peracids upon pyrrolo[2,3-b]pyridines, pyrrolo[2,3-b]pyrazines, and triazolo[1,5-a]- and triazolo[4,3-a]pyrazine. Some chemical and spectroscopic properties of the triazolopyrazines and their N-oxides, 506–11
Transformations involving the pyrrolidine ring of nicotine, 579–85
Chromyl halide oxidation of steroid alkenes, 639–42
Acid-catalyzed rearrangement of bis-5,6-dihydro-4H-1,3-thiazin-2-yl and other disulfides and related reactions, 665–71
Isomerism and lead(IV) acetate oxidation reactions of p-substituted phenylosazones of some substituted glyoxals and 1,2-diketones. Reactions of metallic acetates with nitrogen compounds. Part 5, 744–9
Oxidation of aryldialkylamines with cerium(IV) ammonium nitrate and thallium(II) nitrate, 828–32
Pyrazolo[3,4-b]pyridines. The preparation of 1-protected-1H-pyrazolo[3,4-b]pyridines and attempts to remove the 1-substituent. Some reactions of 1-benzyl-1H-pyrazolo[3,4-b]pyridine and its 7-oxide, 938–42
A novel synthesis of pyrimido[4,5-b]quinoline-2(3H),4(10H)-diones (5-deazaflavins) and analogs by the oxidative cyclization of 5,5'-arylmethylenebis(6-alkylamino-3-methyluracils), 978–81
Sultone formation from 2,4,6-triisopropylbenzenesulfinic acid, 1076–9
Studies on tetrahydroisoquinolines. Part 15. Lead tetraacetate oxidation of four hydroxytetrahydroprotoberberines, (±)-govanine, (±)-discretine, (±)-corytencine, and (±)-10-hydroxy-2,3,11-trimethoxytetrahydroprotoberberine, 1169–75
Preparation of 2-arylmethylene-5-methylbenzo[b]thiophen-3(2H)-one 1-oxides, 1,1-dioxides, spiroepoxides, 1-oxide spiroepoxides, and 1,1-dioxide spiroepoxides, 1194–8
Oxidation of ketone and aldehyde hydrazones, oximes and semicarbazones, and of hydroxylamines, and hydrazo-compounds, using benzeneseleninic anhydride, 1212–17
Photochemistry of substituted cyclic enones. Part 2. 5-[Prop-2-enyl]cyclopentenones, 1516–22
Conversion of thiocarbonyl compounds into their corresponding oxo-derivatives using benzeneseleninic anhydride, 1650–3
Stereochemical and mechanistic aspects of sulfoxide, epoxide, arene oxide, and phenol formation by photochemical oxygen atom transfer from azaaromatic N-oxides, 1693–9
Polycyclic fluoroaromatic compounds. Part 9. Preparation and some reactions of decafluorofluoranthene, 1726–30
Oxidation of secondary allylic acetates with chromium(VI) reagents 1769–72
Benzocyclobutenes. Part 4. Synthesis of benzocyclobutene-1,2-diones by pyrolytic methods, 1834–40
Heterocycles in organic synthesis. Part 40. Oxidation of 2,4,6-triarylpyridinium betaines and 2,4,6-triarylpyridinium perchlorates by hydrogen peroxide, 1870–8
2-Pyridones and 4-pyridones by oxidative demethylation of 2- and 4-methylpyridinium cations, 1888–9
Photosensitized oxidation of furans. Part 1. Synthesis and properties of furan endo-peroxides, 1955–9
Spirans. Part 12. Stereochemical control in the oxidative cyclization of bisnaphthols, 1978–85
Spirans. Part 13. The synthesis and orientation of spirans related to Abel's ketone (naphtho[2,1-b]furan-2(1H)-spiro-1'(2'H)-naphthalen-2'-one), 1986–93
Electrochemical oxidation of aromatic ethers. Part 6. Oxidation of 4-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-methyl-1,2,3,4-tetrahydroisoquinoline and attempted synthesis of 4-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-methyl-1,4-dihydro-3(2H)-isoquinolone, 2013–20
Asymmetric synthesis at nitrogen by oxidation of imines with m-chloroperbenzoic acid in the presence of optically active carbinols. Absolute stereochemistry of chiral alcohol–imine–peracid solvates, 2152–61
Preparation and properties of tertiary p-alkylarylphosphines containing straight-chain alkyl groups, 2233–7
Synthesis and some reactions of 3,4,5,6-tetrahydro-3,6-dimethyl-2,6-methano-3-benzazocin-1(2H)-one (2,5-dimethyl-8-oxo-6,7-benzomorphan), 2374–9
The reaction of nitrosocarbonyl compounds with 2,5-disubstituted furans. Synthesis of 1,4,2-dioxazine and 1,4,2-dioxazole derivatives, 2408–16
Microbiological transformations. Part 3. The oxidation of androstene derivatives with the fungus Cunninghamella elegans, 2535–41
Reactions of androsta-3,5-dienes with m-chloroperbenzoic acid, 2581–6
Carbonyl transposition and regio- and stereo-specific syntheses of new alcohols, aminoalcohols, and ketones in the monoterpenoid 1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane, 2626–30
18-Substituted steroids. Part 7. Synthesis and structure of 11β,18-epoxy-3α,18,21-trihydroxy-5β-pregnan-20-one (3α,5β-tetrahydroaldosterone), 2818–29
Singlet oxygen photooxidation of some triazapentalenes, 2904–8
OXIDO
Reaction of protoberberine-type alkaloids. Part 13. Biogenetic conversion of protoberberine alkaloids into phthalideisoquinoline alkaloids, 919–26
1,3-Dipolar character of six-membered aromatic rings. Part 52. 2π + 8π cycloaddition reactions of 1-substituted 3-oxidopyridinium betaines, 1176–84
OXIDONORCORALYNE
Reaction of protoberberine-type alkaloids. Part 13. Biogenetic conversion of protoberberine alkaloids into phthalideisoquinoline alkaloids, 919–26
OXIDOPHENYLPYRIDINIUM
Heterocycles in organic synthesis. Part 40. Oxidation of 2,4,6-triarylpyridinium betaines and 2,4,6-triarylpyridinium perchlorates by hydrogen peroxide, 1870–8
OXIDOPYRIDINIUM
1,3-Dipolar character of six-membered aromatic rings. Part 48. Novel conversions of pyridines to isoquinolines, 331–42
1,3-Dipolar character of six-membered aromatic rings. Part 49. 3-Oxido-1-(4-pyridyl)pyridinium, 3-oxido-1-(2-pyridyl)pyridinium, 3-oxido-1-(quinoxalin-2-yl)pyridinium, 3-oxido-1-(5,6-diphenyl-1,2,4-triazin-3-yl)pyridinium, and 3-oxido-1-(5-phenyl-1,2,4-triazin-3-yl)pyridinium, 343–53
1,3-Dipolar character of six-membered aromatic rings. Part 51. Cycloadditions of 1-(β-benzoylvinyl)-3-oxidopyridiniums and subsequent transformations, 362–71
1,3-Dipolar character of six-membered aromatic rings. Part 52. 2π + 8π cycloaddition reactions of 1-substituted 3-oxidopyridinium betaines, 1176–84
OXIME
Oxidation of ketone and aldehyde hydrazones, oximes and semicarbazones, and of hydroxylamines, and hydrazo-compounds, using benzeneseleninic anhydride, 1212–17
Photo-induced transformations. Part 50. The photo-Beckmann rearrangement of 3α,5-cyclo-5α-cholestan-7-one oxime, a βγ-cyclopropyl ketone oxime, 2268–71
Synthesis and some reactions of 3,4,5,6-tetrahydro-3,6-dimethyl-2,6-methano-3-benzazocin-1(2H)-one (2,5-dimethyl-8-oxo-6,7-benzomorphan), 2374–9
Synthesis and ring expansion of 4-(2-dimethylaminoethyl)-4-methylnaphthalen-1(4H)-one and its 2,3-dihydro derivative and some reactions of the lactam products, 2380–2
Studies on the preparation of N-alkyl-O-phenylhydroxylamines, 2781–6
OXIRANE
Regio- and stereospecific synthesis in threo-3-amino-2-hydroxy acids, novel amino acids contained in aminopeptidase inhibitors of microbial origin, 1618–21
New olefin and oxirane syntheses from carbonyl compounds, and diethyl sodiophosphonate anions and 1-aminophosphonate amino-anions, 1731–8
OXO
Synthesis of [1,3,5]thiadiazino[3,2-a]benzimidazole-2,4(3H)-diones and their sulfur analogs, 762–5
Isomerization of 2-aryl-4-oxo-2,3-dihydrobenzopyrano[2,3-

OXO(contd)
d]pyrimidines to 2-aryl-4-hydroxy-5H-benzopyrano[2,3-d]pyrimidines, 1335–7
Steroidal heterocycles: synthesis and structure of imidazo[2,1-b]thiazolo-, thiazolo[3,2-a]benzimidazolo-, and thiazolo[3,2-b]-s-triazolo-derivatives, 2146–51
Organoiron complexes in organic synthesis. Part 7. Regio- and stereochemistry of ring connection reactions relevant to steroid and terpene synthesis. Structure of tricarbonyl(methyl 1-[2-5-η-4-methoxy-1-methylcyclohexa-2,4-dienyl]-3-hydroxymethyl-3-methyl-2-oxocyclohexanecarboxylate)iron, 2774–80
α-(4,6-Diphenyl-2-oxo-1-pyridyl)benzyllithiums and their reactions with electrophiles, 2851–5
OXOBICYCLOHEPTANE
The chemistry of fungi. Part 76. The synthesis and transformations of three stereoisomeric 2-(2,6-dimethoxybenzoyl)-3-methoxycarbonyl-7-oxabicyclo[2.2.1]heptanes, 2435–44
OXOCYCLOHEXANECARBOXYLATE
Organoiron complexes in organic synthesis. Part 7. Regio- and stereochemistry of ring connection reactions relevant to steroid and terpene synthesis. Structure of tricarbonyl(methyl 1-[2-5-η-4-methoxy-1-methylcyclohexa-2,4-dienyl]-3-hydroxymethyl-3-methyl-2-oxocyclohexanecarboxylate)iron, 2774–80
OXOESTRADIOL
A stereoselective total synthesis of 17-O-acetyl-14α-hydroxy-3-O-methyl-11-oxoestradiol-17β, 2793–6
OXOOCTANOATE
Convenient syntheses of alkyl β-resorcylate derivatives, 2272–7
OXOPYRIDINYLPYRIDINIUM
Synthetic applications of N–N linked heterocycles. Part 8. Regiospecific synthesis of 4-(α-acylalkyl) pyridines by attack of lithium enolates of ketones γ to N-(2,6-dimethyl-4-oxopyridin-1-yl)pyridinium salts, 2458–62
OXOSTEROID
New steroidal heterocycles: synthesis and structure of androst-2-eno[2,3-g](tetrazolo[1,5-a]pyrimidines), androst-4-eno[3,2-f](tetrazolo[1,5-a]pyrimidine), and androstano[17,16-f](tetrazolo[1,5-a]pyrimidines), 1019–24
OXOTETRALINCARBOXYLATE
Organoiron complexes in organic synthesis. Part 7. Regio- and stereochemistry of ring connection reactions relevant to steroid and terpene synthesis. Structure of tricarbonyl(methyl 1-[2-5-η-4-methoxy-1-methylcyclohexa-2,4-dienyl]-3-hydroxymethyl-3-methyl-2-oxocyclohexanecarboxylate)iron, 2774–80
OXYGEN
Photo-induced transformations. Part 44. Formation of lactams in the photolysis of some steroidal acetylhydrazones in the presence of oxygen, 1356–64
Stereochemical and mechanistic aspects of sulfoxide, epoxide, arene oxide, and phenol formation by photochemical oxygen atom transfer from azaaromatic N-oxides, 1693–9
Synthesis and reactions of 5-arylamino-1,2,4-trioxanes, 2300–3
OXYGENATION
Reaction of protoberberine-type alkaloids. Part 12. A facile method for regiospecific oxygenation and excited oxidative ring-cleavage of berberine alkaloids, 911–18
Reaction of protoberberine-type alkaloids. Part 13. Biogenetic conversion of protoberberine alkaloids into phthalideisoquinoline alkaloids, 919–26
OZONIDE
Reaction of ozonides with methanol in the presence of chlorosulfonic acid: selective cleavage of the carbon–oxygen bond of the peroxide bridge, 2909–13
OZONOLYSIS
Reaction of 1,2,4,5-tetroxan with antimony pentachloride or liquid sulfur dioxide: heterolytic fission of carbon–oxygen or oxygen–oxygen bonds, 1950–4
PAECILOMYCES
A new tricarboxylic acid anhydride from Paecilomyces variotii, 2134–5
PALLADIUM
Cooligomerization of butadiene and carbon dioxide catalyzed by tertiary phosphine–palladium complexes, 693–8
Alkynyl- and dialkynylquinoxalines. Synthesis of condensed quinoxalines, 1384–9
Preparation and properties of tertiary p-alkylarylphosphines containing straight-chain alkyl groups, 2233–7
PAPYRIOGENIN
New triterpenoids from the leaves of Tetrapanax papyriferum, 325–9
PARA
Synthetic applications of N–N linked heterocycles. Part 7. The preparation of 4-alkyl- and 4-aryl-pyridines by regiospecific attack of Grignard reagents γ to quaternary nitrogen in N-(2,6-dimethyl-4-oxopyridin-1-yl)pyridinium salts, 2480–4
PENAM
Studies related to penicillins and cephalosporins. Part 6. Synthesis of the (±)-dinorpenicillin-spirocyclopentane system, 2228–32
PENAMCARBOXYLATE
Synthesis of tert-butyl 2-(2-methoxycarbonyl-1-methylethylidene-)penam-3-carboxylates; clavulanic acid analogs, 187–90
PENICILLANIC
On the chemistry of β-lactamase inhibition by 6β-bromopenicillanic acid, 2322–9
PENICILLIN
Studies related to penicillins and cephalosporins. Part 5. A new relay synthesis of penicillin, 11–13
The chemistry of 4-mercaptoazetidin-2-ones. Part 1. Preparation and properties of (3R,4R)-4-mercapto-3-phenoxyacetamidoazetidin-2-one, 146–9
A method for the preparation of 7α-methoxycephalosporins, 1109–13
PENICILLINATE
Studies related to penicillins. Part 20. The mechanism of the rearrangement of methyl benzylpenicillinate to methyl benzylpenillonate, 2001–8
PENICILLINSPIROCYCLOPENTANE
Studies related to penicillins and cephalosporins. Part 6. Synthesis of the (±)-dinorpenicillin-spirocyclopentane system, 2228–32
PENICILLIUM
New insights into polyketide metabolism; the use of protium as a tracer in the biosynthesis of citrinin by Penicillium citrinum, 2244–8
PENILLONATE
Studies related to penicillins. Part 20. The mechanism of the rearrangement of methyl benzylpenicillinate to methyl benzylpenillonate, 2001–8
PENTAACETATE
Photobromination of carbohydrate derivatives. Part 2. Penta-O-acetyl-β-D-glucopyranose; the 5-bromo derivative and products of further bromination, 1523–7
PENTAACETYLGLUCOPYRANOSE
Photobromination of carbohydrate derivatives. Part 2. Penta-O-acetyl-β-D-glucopyranose; the 5-bromo derivative and products of further bromination, 1523–7
PENTABENZOATE
Photobromination of carbohydrate derivatives. Part 3. C-5 bromination of penta-O-benzoyl-α- and -β-D-glucopyranose; a route to D-xylohexos-5-ulose derivatives and α-L-idopyranosides, 1528–34
PENTADECENYL
Vesicant principles of poison ivy and related plants: synthesis of the urushiols, 1,2-dihydroxy-3-[(Z)-pentadec-8-enyl]benzene and 1,2-dihydroxy-3-pentadecylbenzene, 2331–7
PENTADECENYLBENZENE
Vesicant principles of poison ivy and related plants: synthesis of the urushiols, 1,2-dihydroxy-3-[(Z)-pentadec-8-enyl]benzene and 1,2-dihydroxy-3-pentadecylbenzene, 2331–7
PENTADECYL
Vesicant principles of poison ivy and related plants: synthesis of the urushiols, 1,2-dihydroxy-3-[(Z)-pentadec-8-enyl]benzene and 1,2-dihydroxy-3-pentadecylbenzene, 2331–7
PENTADECYLBENZENE
Vesicant principles of poison ivy and related plants: synthesis of the urushiols, 1,2-dihydroxy-3-[(Z)-pentadec-8-enyl]benzene and 1,2-dihydroxy-3-pentadecylbenzene, 2331–7
PENTADIENE
Preparation and stereochemistry of some 1,1-disubstituted buta-1,3-dienes, 1756–60
PENTADIENYL
Base catalyzed rearrangements involving ylide intermediates. Part 7. The rearrangements of allyl(pentadienyl)- and propynyl(pentadienyl)-ammonium cations. The [5,4] sigmatropic rearrangement, 2033–48
PENTADIENYLPROPYNYLAMMONIUM
Base catalyzed rearrangements involving ylide intermediates. Part 7. The rearrangements of allyl(pentadienyl)- and propynyl(pentadienyl)-ammonium cations. The [5,4] sigmatropic rearrangement,

PENTADIENYLPROPYNYLAMMONIUM(contd)
2033–48
PENTAFLUORO
Heterocyclic polyfluoro compounds. Part 29. 2:1 Adducts by photochemical addition of cycloalkenes to pentafluoropyridine, 129–31
PENTAFLUOROETHYLATION
Studies on the organic fluorine compounds. Part 27. Abnormal reactions in the trifluoromethylation of aromatic compounds with trifluoromethyl iodide and copper powder, 661–4
PENTANEDIONE
Convenient syntheses of alkyl β-resorcylate derivatives, 2272–7
PENTENONE
1,3-Dipolar character of six-membered aromatic rings. Part 49. 3-Oxido-1-(4-pyridyl)pyridinium, 3-oxido-1-(2-pyridyl)pyridinium, 3-oxido-1-(quinoxolin-2-yl)pyridinium, 3-oxido-1-(5,6-diphenyl-1,2,4-triazin-3-yl)pyridinium, and 3-oxido-1-(5-phenyl-1,2,4-triazin-3-yl)pyridinium, 343–53
PEPTIDE
Peptidic cyclols. Synthesis, crystal and molecular structure of a tricyclic thiacyclol, 1499–506
Synthesis of 5- and 7-bromotryptophan and of [5-bromotryptophan⁹]-β-coritcotropin-(1–24)-tetracosapeptide, a highly potent corticotrophin analog, 1928–32
Lanthionine chemistry. Part 5. Synthesis of cyclic nonsymmetrical lanthionyl peptides, 1965–70
Amino acids and peptides. Part 44. Synthesis of protected peptides related to sequence 23–30 of bovine insulin B-chain, 2797–800
Synthesis and conformation in the solid state of oligopeptides with the L-alanyl-L-leucylglycyl sequence in which some glycines are replaced with N-methylglycines, 2808–11
Cyclodepsipeptides from Beauveria bassiana. Part 3. The isolation of beauverolides Ba, Ca, Ja, and Ka, 2878–80
PERACID
Ring opening or rearrangement versus N-oxidation in the action of peracids upon pyrrolo[2,3-b]pyridines, pyrrolo[2,3-b]pyrazines, and triazolo[1,5-a-]- and triazolo[4,3-a]pyrazine. Some chemical and spectroscopic properties of the triazolopyrazines and their N-oxides, 506–11
PERBENZOIC
Reactions of androsta-3,5-dienes with m-chloroperbenzoic acid, 2581–6
PERCHLORATE
Diisophorone and related compounds. Part 5. 2,7-Epoxydiisophoranes: oxirane cleavage by perchloric acid, 733–7
Heterocyclic compounds with bridgehead nitrogen atoms. Part 8. The synthesis and properties of cyclopenta[4,5]azepino[7,1,2-cd]pyrrolizine (cyclopenta[h][2.2.4]cyclazine), 1324–30
PERFLUORO
Fluoro olefin chemistry. Part 12. Some reactions of 3,4-dihalotetrafluorocyclobutenes: a synthesis of perfluorocyclooctatetraene, 122–5
Reactions involving fluoride ion. Part 17. Oligomers of perfluorocyclobutene, 426–8
Reactions involving fluoride ion. Part 18. Derivatives of perfluoro cycloalkenes, 429–34
Reactions involving fluoride ion. Part 19. Observable perfluorocycloalkyl anions, 435–9
Fluorinations with complex metal fluorides. Part 5. Fluorination of nitriles over cesium tetrafluorocobaltate(III), 1507–11
Polycyclic fluoroaromatic compounds. Part 9. Preparation and some reactions of decafluorofluoranthene, 1726–30
Heterocyclic polyfluoro-compounds. Part 32. Perfluoroalkylation of trifluoro-1,2,4-triazine, 2254–7
Condensation of αβ-unsaturated amines with perfluoroarenes, 2845–50
PERFLUOROALKYL
Heterocyclic polyfluoro-compounds. Part 32. Perfluoroalkylation of trifluoro-1,2,4-triazine, 2254–7
PERFLUOROALKYLATION
Heterocyclic polyfluoro-compounds. Part 32. Perfluoroalkylation of trifluoro-1,2,4-triazine, 2254–7
PERFLUOROALKYLTRIAZINE
Heterocyclic polyfluoro-compounds. Part 32. Perfluoroalkylation of trifluoro-1,2,4-triazine, 2254–7
PERFLUOROARENE
Condensation of αβ-unsaturated amines with perfluoroarenes, 2845–50
PERFLUOROCYCLOHEXANECARBONITRILE
Fluorinations with complex metal fluorides. Part 5. Fluorination of nitriles over cesium tetrafluorocobaltate(III), 1507–11
PERFLUORODIMETHYL
Reactions involving fluoride ion. Part 20. Competition between isomerization and nucleophilic attack on a perfluoroalkene, 1551–4
PERFLUORODIMETHYLHEXENE
Reactions involving fluoride ion. Part 20. Competition between isomerization and nucleophilic attack on a perfluoroalkene, 1551–4
PERMETHRIN
Pyrethroid photochemistry: mechanistic aspects in reactions of the (dihalovinyl)cyclopropanecarboxylate substituent, 728–32
PEROXIDE
Synchronous skeletal rearrangement of D-nor-5α-androstane-16α- and -16β-carbonyl m-chlorobenzoyl peroxides, 943–6
Photosensitized oxidation of furans. Part 1. Synthesis and properties of furan endo-peroxides, 1955–9
PERULACTONE
Perulactone, a new ergostane-type steroid from Physalis peruviana (Solanaceae), 2700–4
PGF2
Addition of thallium triacetate to $PGF_{2\alpha}$ methyl ester and related compounds in acetic acid. Nuclear magnetic resonance spectral study of novel dioxatricyclic and oxabicyclic products, 2572–80
PHENACYL
Conversion of pyridines and quinolines into pyridazines and pyrazoles, 72–7
PHENACYLPYRIDINIUM
Conversion of pyridines and quinolines into pyridazines and pyrazoles, 72–7
Evidence for the mechanism of formation of N-(1,2-dihydrobenzocyclobut-1-enyl)pyridinium bromides and acetophenones from bisdibromocyclopropane adducts, 2405–7
PHENACYLQUINOLINIUM
Conversion of pyridines and quinolines into pyridazines and pyrazoles, 72–7
PHENANTHRENE
Synthetic studies towards complex diterpenoids. Part 13. Stereospecific synthesis of intermediates to the diterpene alkaloids and the C_{20}-gibberellins by a novel rearrangement of angularly fused cyclobutanones, 2881–6
PHENANTHRIDONE
Photocyclization of enamides. Part 14. Substituent effects in the photocyclization of N-α,β-unsaturated acylanilides, 197–202
PHENANTHROFURANONE
Synthetic studies on terpenoids. Part 24. Stereocontrolled synthesis of 3aβ-H,3bα-H,5aα-H,9aα-H,11aβ-H-9bβ-methylperhydrophenanthro[2,1-b]furan-7-one, an intermediate to epoxynorcafestanone, 2511–15
PHENAZINE
Photochemical reactions of amines on nitrophenazines. Part 2. Photoreduction versus photosubstitution, 191–6
Thermal decomposition of aromatic azides. Formation of phenazines and related compounds, 611–13
PHENETHYL
Bridged-ring nitrogen compounds. Part 3. Synthesis of representatives of the 1,5-methano-4-benzazonine ring system, 2141–5
PHENETHYLPYRIDINE
Bridged-ring nitrogen compounds. Part 3. Synthesis of representatives of the 1,5-methano-4-benzazonine ring system, 2141–5
PHENOL
Oxidative coupling of phenols and phenolic ethers. Part 4. Synthesis of dibenz[d,f]azonines and a dibenz[d,f]azecine via direct coupling, 1104–8
Intramolecular alkylation of phenols. Part 4. Base-catalyzed cyclization of phenolic enones. Scope and limitations, 1555–66
Intramolecular alkylation of phenols. Part 5. A regiospecific anionic ring closure of phenols via quinone methides, 1567–77
Selective reactions between phenols and formaldehyde. A novel route to salicylaldehydes, 1862–5
Reactions of alkyllithium compounds with aryl halides, 2617–25
The chemistry of nitrilium salts. Part 1. Acylation of phenols and phenol ethers with nitriles and trifluoromethanesulfonic acid, 2894–900
PHENOXYACETAMIDO
The chemistry of 4-mercaptoazetidin-2-ones. Part 1. Preparation and properties of (3R,4R)-4-mercapto-3-phenoxyacetamidoaze-

PHENOXYACETAMIDO(contd)
tidin-2-one, 146-9
PHENYL
Reaction between 1,1-dilithioalkyl phenyl sulfones and ω-bromo esters. Synthesis of cyclic vinyl ethers, 260-3
Ketenimines as intermediates to heterocycles. Part 2. 2-Phenylimino-3,4,5-triphenyl-1,3-oxazoline, 385-7
Heterocyclic compounds. Part 6. Synthesis of 1,3,4-thiadiazolidines from the reactions of phenyl hydrazones with phenyl isothiocyanate and carbon disulfide, 574-8
Methods for the construction of linear 1,7-diarylheptanoids; synthesis of di-O-methylcentrolobol and precursors (synthetic and biosynthetic) to the meta,meta-bridged biphenyls myricanol and myricanone, 614-22
Electrochemical reactions. Part 23. Intramolecular radical substitution during the reduction of 2-halo-N-methyl-N-naphthylbenzamides, 657-60
Base-catalyzed acyloin rearrangements: the first synthesis of 4-arylflavan-3-ones via chalcone epoxides, 1025-8
Regio- and stereo-selectivity of acetoxymercuration of acetylenes, 1098-103
Reaction of benzo[c]cinnolinium-5-(N-acyl- and N-benzimidoimides) with diphenylcyclopropenone, 1147-9
Radical-nucleophilic substitution ($S_{RN}1$) reactions: preparation and reactions of α-nitrosulfides, 1407-13
Chemistry of O-alkyl selenoesters. Reaction with triethylphosphine 1627-34
Ketene. Part 17. Addition reactions of ketenes with N-phenyl nitrones, 1700-5
Intramolecular photocycloaddition reactions of phenyl-vinyl bichromophoric systems, 1761-8
Heterocycles in organic synthesis. Part 34. The photocyclization of 1,2-diarylpyridinium cations and the photobiscyclization of 1,2,6-triarylpyridinium cations, 1879-87
Studies on the preparation of N-alkyl-O-phenylhydroxylamines, 2781-6
The chemistry of nitrilium salts. Part 1. Acylation of phenols and phenol ethers with nitriles and trifluoromethanesulfonic acid, 2894-900
PHENYLACETATE
Studies on the synthesis of heterocyclic compounds. Part 832. A simple and efficient synthesis of apomitomycin derivatives; potential intermediate for mitomycin synthesis, 1607-13
PHENYLACETYLENE
Syntheses and reactions of spirocyclopropaneanthrones. Part 2. Rearrangements and cyclopropyl ring opening reactions of phenyl-substituted spirocyclopropaneanthrones and related compounds, 2835-41
PHENYLALKENE
A novel reduction of activated olefins by lithium amides, 1267-9
PHENYLALKYNE
Regio- and stereo-selectivity of acetoxymercuration of acetylenes, 1098-103
PHENYLARSINE
N-Chloro- and NN-dichloro derivatives of some phosphinic amides: preparation and reactions with anthracene, anisole, and triphenylarsine, 705-11
PHENYLATION
The thermolysis of N-phenyl-N'-sulfinylhydrazine: an interesting source of phenyl radicals, 1901-3
PHENYLAZAALLYLLITHIUM
[6+3] Cycloadditions of 1,1- and 1,3-diphenyl-2-azaallyllithium to cycloheptatriene, 672-4
PHENYLAZETIDINOL
Light-induced reactions of heteroaryl N-methylanilinomethyl ketones: formation of 3-heteroaryl-1-phenylazetidin-3-ols, 2371-3
PHENYLBROMOKETENE
1,3-Dipolar character of six-membered aromatic rings. Part 52. 2π + 8π cycloaddition reactions of 1-substituted 3-oxidopyridinium betaines, 1176-84
PHENYLBUTANOATE
Regio- and stereospecific synthesis in threo-3-amino-2-hydroxy acids, novel amino acids contained in aminopeptidase inhibitors of microbial origin, 1618-21
PHENYLCYCLOPROPENONE
Reaction of benzo[c]cinnolinium-5-(N-acyl- and N-benzimidoimides) with diphenylcyclopropenone, 1147-9
PHENYLDIHYDROPYRIDINE
Reductive deamination of primary amines, 2554-60
PHENYLDIOXOLANE
Reactions of coordinated ligands. Part 8. Reaction of Grignard reagents with 2-alkoxy-1,3-dioxolanes; an improved route to aldehydes, 756-8
PHENYLENE
The chemistry of o-phenylene diisothiocyanate. Part 2. Reactions with enamines, an ynamine and some reactive methylene compounds, 2587-90
The chemistry of o-phenylenediisothiocyanate. Part 3. Studies on the syntheses of heterocyclic compounds, 2608-11
PHENYLENEDIISOTHIOCYANATE
The chemistry of o-phenylene di-isothiocyanate. Part 1. Some reactions with N-nucleophiles, 1240-4
PHENYLFLAVANONE
Base-catalyzed acyloin rearrangements: the first synthesis of 4-arylflavan-3-ones via chalcone epoxides, 1025-8
PHENYLGUANIDINE
New heterospiro-ring systems by condensation of some heterocyclic o-dicarboxylates with 1,3-diphenylguanidine, 1667-70
PHENYLHALOSULFOXIMIDE
Homolytic reaction of N-halosulfoximides with olefins and toluene 1257-61
PHENYLHEXENYNE
Base catalyzed rearrangements involving ylide intermediates. Part 5. Thermal rearrangements of 3-dimethylaminohex-5-en-1-ynes, 1473-6
PHENYLHYDROXYLAMINE
Ketenimines as intermediates to heterocycles. Part 2. 2-Phenylimino-3,4,5-triphenyl-1,3-oxazoline, 385-7
PHENYLHYDROXYPROPIOPHENONE
Base-catalyzed acyloin rearrangements: the first synthesis of 4-arylflavan-3-ones via chalcone epoxides, 1025-8
PHENYLIMINO
Ketenimines as intermediates to heterocycles. Part 2. 2-Phenylimino-3,4,5-triphenyl-1,3-oxazoline, 385-7
PHENYLIMINOTRIPHENYLOXAZOLINE
Ketenimines as intermediates to heterocycles. Part 2. 2-Phenylimino-3,4,5-triphenyl-1,3-oxazoline, 385-7
PHENYLLYXOSE
Preparation of sugars with branched chains, a methylene bridge, or C-1-phenyl substituents by the Ramirez dioxaphospho'e condensation, 1262-6
PHENYLNAPHTHOFURANONE
A new synthetic approach towards adriamycin, 643-7
PHENYLNITRILE
Reaction of 1,3-dipoles with 3-pyrrolidino-2-benzopyran-1-one, 846-8
PHENYLNORBORNYLCARBOXYLIC
Product formation and identification in the reaction of 6-endo-hydroxy-5-exo-iodo-3-exo-phenylnorborn-2-endo-ylcarboxylic acid γ-lactone with silver toluene-p-sulfonate, 1578-82
PHENYLOSAZONE
Isomerism and lead(IV) acetate oxidation reactions of p-substituted phenylosazones of some substituted glyoxals and 1,2-diketones. Reactions of metallic acetates with nitrogen compounds. Part 5, 744-9
PHENYLOXIME
Studies on the preparation of N-alkyl-O-phenylhydroxylamines, 2781-6
PHENYLOXOPYRIDYLBENZYLLITHIUM
α-(4,6-Diphenyl-2-oxo-1-pyridyl)benzyllithiums and their reactions with electrophiles, 2851-5
PHENYLPHOSPHINE
Novel reagent system for converting a hydroxy-group into an iodo-group in carbohydrates with inversion of configuration. Part 2, 2866-9
PHENYLPROPANAL
Methods for the construction of linear 1,7-diarylheptanoids; synthesis of di-O-methylcentrolobol and precursors (synthetic and biosynthetic) to the meta,meta-bridged biphenyls myricanol and myricanone, 614-22
PHENYLPROPIONAMIDE
Electrochemical oxidation of aromatic ethers. Part 6. Oxidation of 4-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-methyl-1,2,3,4-tetrahydroisoquinoline and attempted synthesis of 4-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-methyl-1,4-dihydro-3(2H)-

PHENYLPROPIONAMIDE(contd)
isoquinolone, 2013–20
PHENYLPROPIONATE
A novel reduction of activated olefins by lithium amides, 1267–9
PHENYLPROPYNYLALLYLAMMONIUM
Base catalyzed rearrangements involving ylide intermediates. part 6. The rearrangements of diallyl- and allylpropynylammonium cations in protic media, 1477–86
PHENYLPYRIDINIUM
Heterocycles in organic synthesis. Part 40. Oxidation of 2,4,6-triarylpyridinium betaines and 2,4,6-triarylpyridinium perchlorates by hydrogen peroxide, 1870–8
Heterocycles in organic synthesis. Part 34. The photocyclization of 1,2-diarylpyridinium cations and the photobiscyclization of 1,2,6-triarylpyridinium cations, 1879–87
PHENYLPYRROLE
Heterocycles in organic synthesis. Part 40. Oxidation of 2,4,6-triarylpyridinium betaines and 2,4,6-triarylpyridinium perchlorates by hydrogen peroxide, 1870–8
PHENYLSPIROCYCLOPROPANEANTHRONE
Syntheses and reactions of spirocyclopropaneanthrones. Part 2. Rearrangements and cyclopropyl ring opening reactions of phenyl-substituted spirocyclopropaneanthrones and related compounds, 2835–41
PHENYLSULFINYL
A new route to 5-substituted resorcinols and related systems, 170–5
PHENYLSULFINYLACETATE
A new route to 5-substituted resorcinols and related systems, 170–5
PHENYLSULFINYLHYDRAZINE
The thermolysis of N-phenyl-N'-sulfinylhydrazine: an interesting source of phenyl radicals, 1901–3
PHENYLTHIOPYRYLIUM
Heterocycles in organic synthesis. Part 13. The reaction of 2,4-diphenylthiopyrylium perchlorate with amines, 1345–6
PHENYLTRIAZOLINEDIONE
Ene-type reactions involving transfer of acyl groups. Addition of 4-phenyl-1,2,4-triazoline-3,5-dione to various unsaturated compounds, 843–5
PHLOROGLUCINOL
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
PHOMA
Structure and synthesis of phomamide, a new piperazine-2,5-dione related to the sirodesmins, isolated from the culture medium of Phoma lingam Tode, 113–15
Sirodesmin PL biosynthesis in Phoma lingam Tode, 1739–46
PHOMAMIDE
Structure and synthesis of phomamide, a new piperazine-2,5-dione related to the sirodesmins, isolated from the culture medium of Phoma lingam Tode, 113–15
PHOSPHATE
The dealkylation of phosphate and phosphonate esters by iodotrimethylsilane: a mild and selective procedure, 1150–3
PHOSPHETANE
A study of the reaction between the dichloromethylphosphine–aluminum chloride complex and terpenes. Part 2. Reaction of the dichloromethylphosphine–aluminum chloride complex and camphene, and an x-ray crystallographic study of the products, 2136–40
PHOSPHINE
Cooligomerization of butadiene and carbon dioxide catalyzed by tertiary phosphine–palladium complexes, 693–8
Cyanation using the combined reagent, triphenylphosphine–thiocyanogen (TPPT): a new general route to indole and pyrrole carbonitriles, 1132–5
A study of the reaction between the dichloromethylphosphine–aluminum chloride complex and terpenes. Part 2. Reaction of the dichloromethylphosphine–aluminum chloride complex and camphene, and an x-ray crystallographic study of the products, 2136–40
Preparation and properties of tertiary p-alkylarylphosphines containing straight-chain alkyl groups, 2233–7
PHOSPHINIC
N-Chloro- and NN-dichloro derivatives of some phosphinic amides: preparation and reactions with anthracene, anisole, and triphenylarsine, 705–11
PHOSPHITE
Arbuzov reaction of alkyl and silyl phosphites with halogens involving four- and five-coordinate intermediates, 833–6
PHOSPHONATE
The dealkylation of phosphate and phosphonate esters by iodotrimethylsilane: a mild and selective procedure, 1150–3
New olefin and oxirane syntheses from carbonyl compounds, and diethyl sodiophosphonate anions and 1-aminophosphonate amino-anions, 1731–8
Polymer-supported phosphonates. Olefins from aldehydes, ketones, and dioxolanes by means of polymer-supported phosphonates, 2516–19
PHOSPHONIUM
Electroorganic reactions. Part 16. The preparative-scale cathodic hydrogenolysis and coupling of benzyl-, allyl-, cinnamyl-, and polyenylphosphonium salts, 1154–60
Chemistry of O-alkyl selenoesters. Reaction with triethylphosphine 1627–34
'Le BOP' reagent and imidazole for selective O-acylation of trehalose, 1940–3
PHOSPHONOPROPIONATE
Further synthetic investigations in the eremophilane sesquiterpene group. Synthesis of (±)-isovalencenic acid, (±)-isovalencenol, and their (Z)-isomers, and experiments directed towards the synthesis of tessaric acid, 1752–5
PHOSPHORYLATION
A method for the preparation of 7α-methoxycephalosporins, 1109–13
PHOTOADDN
Heterocyclic polyfluoro-compounds. Part 33. Photochemical oxetane formation from fluoro ketones and perfluoro aldehydes and 1,2-difluoroethylene, 2258–67
PHOTOBROMINATION
Photobromination of carbohydrate derivatives. Part 2. Penta-O-acetyl-β-D-glucopyranose; the 5-bromo derivative and products of further bromination, 1523–7
Photobromination of carbohydrate derivatives. Part 3. C-5 bromination of penta-O-benzoyl-α- and -β-D-glucopyranose; a route to D-xylohexos-5-ulose derivatives and α-L-idopyranosides, 1528–34
Photobromination of carbohydrate derivatives. Part 4. Observations on some glucopyranoside esters; a simple route to aryl α-L-idopyranosides, 2762–7
Photobromination of carbohydrate derivatives. Part 5. Preparation and reactions of (5S)-1,2,3,4-tetra-O-acetyl-5-bromo-β-D-xylopyranose; a new type of 'double-headed' nucleoside, 2767–73
PHOTOCHEM
The photoaddition of ethylenic hydrocarbons to benzene, 55–71
Photochemical cyclization of phthalimide Mannich bases, 93–6
Heterocyclic polyfluoro compounds. Part 29. 2:1 Adducts by photochemical addition of cycloalkenes to pentafluoropyridine, 129–31
Photochemical reactions of amines on nitrophenazines. Part 2. Photoreduction versus photosubstitution, 191–6
Photocyclization of enamides. Part 14. Substituent effects in the photocyclization of N-α,β-unsaturated acylanilides, 197–202
Photocyclization of enamides. Part 16. A new synthesis of clavines. The stereostructure of costaclavine, 208–11
Photocyclization of enamides. Part 17. Total synthesis of (±)-corynoline, (±)-12-hydroxycorynoline, and (±)-11-epicorynoline, 212–16
The photochemistry of ketones derived from carbohydrates. Part 8. Type I cleavage of 1,2:4,5-di-O-isopropylidene-β-D-erythro-2,3-hexodiulose-2,6-pyranose: a synthesis of D-ribulose from D-fructose, 277–81
Fluoro olefin chemistry. Part 13. A further route to perfluoro-2,3-dimethylbut-2-ene and the photochemical rearrangement of some perfluoroalkyl olefins, 487–9
Photochemical electrocyclization of 1,4,6-trisubstituted pyrimidin-2-ones to 2-oxo-1,3-diazabicyclo[2.2.0]hex-5-enes, 607–10
A new synthetic approach towards adriamycin, 643–7
Polyhaloaromatic compounds. Part 41. Photochemical dehalogenation and arylation reactions of polyhaloaromatic and polyhaloheteroaromatic compounds, 648–56
Pyrethroid photochemistry: mechanistic aspects in reactions of the (dihalovinyl)cyclopropanecarboxylate substituent, 728–32
Electrocyclic reactions of protonated chalcones: synthesis of 3-arylindan-1-ones, 837–42
Total synthesis of prostaglandin-$F_{2\alpha}$ involving stereocontrolled and photo-induced reactions of bicyclo[3.2.0]heptanones, 852–7
The photo-cycloaddition of enol ethers to benzene, 869–76
Reaction of protoberberine-type alkaloids. Part 12. A facile method

PHOTOCHEM(contd)
for regiospecific oxygenation and excited oxidative ring-cleavage of berberine alkaloids, 911–18
Photochemical deoxygenation of an α-ketol: the dihydroflavonol–flavanone conversion, 1003–6
The photocycloaddition of vinyl acetate to benzene and its simple derivatives: functionalization of the dihydrosemibullvalene skeleton, 1118–23
Photochemical reactions of benzene derivatives with electron-donor ethylenes, 1218–24
The photochemical reaction of benzene with ethylenes: studies with allyl compounds, enamines, vinyl sulfide, and 5,6-dichlorobicyclo[2.2.1]hept-2-ene, 1225–9
Photochemical isomerization of 3H-1,2-diazepines to 4,6a-dihydro[1,2]diazeto[1,4-a]pyrroles, 1230–2
On the mechanism of the meta photocycloaddition of ethylenes to benzenoid compounds, 1314–18
Photo-induced transformations. Part 44. Formation of lactams in the photolysis of some steroidal acetylhydrazones in the presence of oxygen, 1356–64
Excited state substitution and addition reactions of aryl fluorides with aliphatic amines, 1393–9
Mechanism of light-induced reductive acetylation of 1,2-naphthoquinone with acetalaldehyde, 1414–19
Photochemistry of substituted cyclic enones. Part 2. 5-[Prop-2-enyl]cyclopentenones, 1516–22
Photobromination of carbohydrate derivatives. Part 2. Penta-O-acetyl-β-D-glucopyranose; the 5-bromo derivative and products of further bromination, 1523–7
Photobromination of carbohydrate derivatives. Part 3. C-5 bromination of penta-O-benzoyl-α- and -β-D-glucopyranose; a route to D-xylohexos-5-ulose derivatives and α-L-idopyranosides, 1528–34
A novel photochemical structural inversion: the first methoxy-hydroxymethyl isomerization, 1540–3
Photolytic conversion of some bicyclo[3.2.0]heptanones into 3-hydroxy- or 3-methoxy-2-oxabicyclo[3.3.0]octan-2-ones, 1583–6
Light-induced reactions of 2-(N-alkyl-N-arylamino)acetophenones and related amino ketones: formation of 1,3-diarylazetidin-3-ols, 1671–8
Stereochemical and mechanistic aspects of sulfoxide, epoxide, arene oxide, and phenol formation by photochemical oxygen atom transfer from azaaromatic N-oxides, 1693–9
Intramolecular photocycloaddition reactions of phenyl-vinyl bichromophoric systems, 1761–8
Heterocycles in organic synthesis. Part 34. The photocyclization of 1,2-diarylpyridinium cations and the photobiscyclization of 1,2,6-triarylpyridinium cations, 1879–87
Photosensitized oxidation of furans. Part 1. Synthesis and properties of furan endo-peroxides, 1955–9
The photochemical cycloaddition of furan and benzene, 2174–8
Photo-induced transformations. Part 50. The photo-Beckmann rearrangement of 3α,5-cyclo-5α-cholestan-7-one oxime, a βγ-cyclopropyl ketone oxime, 2268–71
Competitive cyclizations of singlet and triplet nitrenes. Part 9. 2-(2-Nitrenophenyl)benzothiazoles and -benzimidazoles, 2387–91
The photochemical reactions of benzene with 1,2-, 1,3-, and 1,4-dienes, 2425–34
Heterocyclic polyfluoro compounds. Part 32. Photochemical reactions of 3-chlorotetrafluoro- and 3,5-dichlorotrifluoropyridines with olefins, and their photoreduction, 2520–2
Heterocyclic polyfluoro compounds. Part 33. Competing 1,2- and 1,4-photochemical addition of hexafluorobiacetyl to 1,2-difluoroethylene, 2523–6
The photoreactions of pyridine and 2-fluoropyridine with aliphatic amines, 2531–4
Photoinduced reduction of fluoren-9-ol and its acetate by aliphatic amines, 2613–16
Redox-photosensitized reactions. Part 6. Stereospecific ring cleavage of 1-phenoxy-1,2,2a,3,4,8b-hexahydrocyclobuta[a]naphthalene-8b-carbonitrile and its 2-methyl derivatives by redox-photosensitization, 2705–8
Photochemistry of methoxy-substituted quinoline and isoquinoline N-oxides, 2738–42
N-Oxides and related compounds. Part 60. Novel thermal and photochemical rearrangements of N-substituted 2-pyridones, 2743–54
Photobromination of carbohydrate derivatives. Part 4. Observations on some glucopyranoside esters; a simple route to aryl α-L-idopyranosides, 2762–7
Photobromination of carbohydrate derivatives. Part 5. Preparation and reactions of (5S)-1,2,3,4-tetra-O-acetyl-5-bromo-β-D-xylopyranose; a new type of 'double-headed' nucleoside, 2767–73
Singlet oxygen photooxidation of some triazapentalenes, 2904–8
PHOTOCYCLIZATION
Photochemical cyclization of phthalimide Mannich bases, 93–6
Photocyclization of enamides. Part 14. Substituent effects in the photocyclization of N-α,β-unsaturated acylanilides, 197–202
Photocyclization of enamides. Part 15. Syntheses of the basic structures of coryneline and related alkaloids, 203–7
Polyhaloaromatic compounds. Part 41. Photochemical dehalogenation and arylation reactions of polyhaloaromatic and polyhaloheteroaromatic compounds, 648–56
Photochemistry of substituted cyclic enones. Part 2. 5-[Prop-2-enyl]cyclopentenones, 1516–22
PHOTOCYCLOADDN
The photoaddition of ethylenic hydrocarbons to benzene, 55–71
The photo-cycloaddition of enol ethers to benzene, 869–76
The photocycloaddition of vinyl acetate to benzene and its simple derivatives: functionalization of the dihydrosemibullvalene skeleton, 1118–23
Photochemical reactions of benzene derivatives with electron-donor ethylenes, 1218–24
The photochemical cycloaddition of furan and benzene, 2174–8
PHOTODECARBONYLATION
The photochemistry of ketones derived from carbohydrates. Part 9. Formation of O- and C-ribofuranoside derivatives by photodecarbonylation of O- and C-glycosides of lyxo-hexopyranos-4-ulose derivatives, 779–86
PHOTOLYSIS
1,2,3-Benzotriazin-4-ones and related systems. Part 6. Thermal and photolytic decomposition of 3-arylideneamino-, 3-imidoyl-, and 3-heteroaryl-1,2,3-benzotriazin-4-ones, 633–8
Pyrethroid photochemistry: mechanistic aspects in reactions of the (dihalovinyl)cyclopropanecarboxylate substituent, 728–32
Sultone formation from 2,4,6-triisopropylbenzenesulfinic acid, 1076–9
Photo-induced transformations. Part 44. Formation of lactams in the photolysis of some steroidal acetylhydrazones in the presence of oxygen, 1356–64
Stereochemical and mechanistic aspects of sulfoxide, epoxide, arene oxide, and phenol formation by photochemical oxygen atom transfer from azaaromatic N-oxides, 1693–9
Reactions of spiro-indazoles containing keto-groups. Syntheses of benz[a]aceanthrylenes, naphth[2,1-a]aceanthrylenes, and fluoranthenes, 1944–9
Photo-induced transformations. Part 50. The photo-Beckmann rearrangement of 3α,5-cyclo-5α-cholestan-7-one oxime, a βγ-cyclopropyl ketone oxime, 2268–71
Synthesis and photolysis of azidobenzo[b]thiophenes, -benzothiazoles, -benzimidazoles, and -indazoles: novel 6,7-diaminobenzothiazoles, -benzimidazoles, and -indazoles and 6-diethylamino-8H-thiazolo[5,4-c]azepines, 2362–70
Light-induced reactions of heteroaryl N-methylanilinomethyl ketones: formation of 3-heteroaryl-1-phenylazetidin-3-ols, 2371–3
N-Oxides and related compounds. Part 60. Novel thermal and photochemical rearrangements of N-substituted 2-pyridones, 2743–54
PHOTOLYTIC
Polyhaloaromatic compounds. Part 41. Photochemical dehalogenation and arylation reactions of polyhaloaromatic and polyhaloheteroaromatic compounds, 648–56
PHOTOOXIDN
Metal-catalyzed organic photoreactions. Evidence for the long-range electron-transfer mechanism in the uranyl- or iron(III)-catalyzed photoreactions of olefins, 947–9
Singlet oxygen photooxidation of some triazapentalenes, 2904–8
PHOTOOXYGENATION
Reaction of protoberberine-type alkaloids. Part 12. A facile method for regiospecific oxygenation and excited oxidative ring-cleavage of berberine alkaloids, 911–18
Reaction of protoberberine-type alkaloids. Part 13. Biogenetic conversion of protoberberine alkaloids into phthalideisoquinoline alkaloids, 919–26
PHOTOREACTION
Metal-catalyzed organic photoreactions. Evidence for the long-

PHOTOREACTION(contd)
range electron–transfer mechanism in the uranyl– or iron(III)–catalyzed photoreactions of olefins, 947–9
Excited state substitution and addition reactions of aryl fluorides with aliphatic amines, 1393–9
PHOTOREARRANGEMENT
Photochemistry of methoxy–substituted quinoline and isoquinoline N–oxides, 2738–42
PHOTOREDN
Photochemical reactions of amines on nitrophenazines. Part 2. Photoreduction versus photosubstitution, 191–6
Heterocyclic polyfluoro compounds. Part 32. Photochemical reactions of 3–chlorotetrafluoro– and 3,5–dichlorotrifluoropyridines with olefins, and their photoreduction, 2520–2
PHOTOSENSITIZATION
Redox–photosensitized reactions. Part 6. Stereospecific ring cleavage of 1–phenoxy–1,2,2a,3,4,8b–hexahydrocyclobuta[a]naphthalene–8b–carbonitrile and its 2–methyl derivatives by redox–photosensitization, 2705–8
PHOTOSUBSTITUTION
Photochemical reactions of amines on nitrophenazines. Part 2. Photoreduction versus photosubstitution, 191–6
The photoreactions of pyridine and 2–fluoropyridine with aliphatic amines, 2531–4
PHTHALAZINEDIONE
Benzocyclobutenes. Part 4. Synthesis of benzocyclobutene–1,2–diones by pyrolytic methods, 1834–40
Benzocyclobutenes. Part 5. Synthesis of 4–hydroxy–, 4,5–dihydroxy–, and 3,6–dihydroxy–benzocyclobutene–1,2–dione (benzologs of semisquaric and squaric acid), 1841–6
PHTHALIDE
The chemistry of fungi. Part 77. The synthesis of benzophenones from phthalides: x–ray crystallographic definition of a novel isobenzofuran system, 2445–9
PHTHALIDEISOQUINOLINE
Reaction of protoberberine–type alkaloids. Part 13. Biogenetic conversion of protoberberine alkaloids into phthalideisoquinoline alkaloids, 919–26
PHTHALIMIDE
Reaction of 1,3–dipoles with 3–pyrrolidino–2–benzopyran–1–one, 846–8
Heterocycles in organic synthesis. Part 42. Preparation of azides, phthalimides, and sulfonamides from primary amines, 849–50
Synthesis of N–hydroxymaleimide and N–hydroxyitaconimide and their related derivatives, 2122–5
PHYSALIS
Perulactone, a new ergostane–type steroid from Physalis peruviana (Solanaceae), 2700–4
PHYTOTOXIN
Sirodesmin PL biosynthesis in Phoma lingam Tode, 1739–46
PICRYLETHYLENEDIAMINE
Nucleophilic displacement and spiro–complex formation in NN'–dimethyl–N–picrylethylenediamine, 2205–8
PIGMENT
The bacterial pigment from Pseudomonas lemonnieri. Part 1. Structure of a degradation product, 3–n–octanamidopyridine–2,5,6–trione, by x–ray crystallography, 1782–7
The bacterial pigment from Pseudomonas lemonnieri. Part 2. The synthesis of 3–n–octanamidopyridine–2,5,6–trione: the structure and synthesis of lemonnierin, 1788–95
Structural elucidation of the nigerones, four new naphthopyrones from cultures of Aspergillus niger, 2474–9
PIMARENONE
Acid–catalyzed decomposition of β,γ–unsaturated diazo–ketones: preparation of 4,4–dimethyl–D–norsteroidal systems from pimaradiene and sandaracopimaradiene precursors, 1924–7
PINENE
Cyclobutane ring opening of pin–2(10)–ene with mercury(II) salts. A new, high–yield synthesis of p–mentha–1,8–dien–7–ol, 1747–51
PIPERAZINEDIONE
α,β–Unsaturated carboxylic acid derivatives. Part 18. Syntheses of geometric isomers of 3,6–dibenzyiidene– and 3–p–anisylidene–6–benzylidene–2,5–piperazinediones, 419–21
PIPERIDINOCYCLOBUTENONE
Ene–type reactions involving transfer of acyl groups. Addition of 4–phenyl–1,2,4–triazoline–3,5–dione to various unsaturated compounds, 843–5
PL
Sirodesmin PL biosynthesis in Phoma lingam Tode, 1739–46
PLANT
Studies of enzyme–mediated reactions. Part 12. Stereochemical course of the decarboxylation of (2S)–tyrosine to tyramine by microbial, mammalian, and plant systems, 31–42
PLATELET
Heterocyclic prostaglandin analogs. Part 2. Hydantoins and other imidazole analogs, 495–505
PLATINUM
Preparation and properties of tertiary p–alkylarylphosphines containing straight–chain alkyl groups, 2233–7
POLY
Polyhaloaromatic compounds. Part 41. Photochemical dehalogenation and arylation reactions of polyhaloaromatic and polyhaloheteroaromatic compounds, 648–56
POLYACETOXYPENTYL
Synthesis of 3–(polyacetoxyalkyl)pyrroles from 3–aminocrotonic esters and open–chain sugar nitro olefins, 1199–205
POLYCHLORO
Polyhalogenoaromatic compounds. Part 43. Inter– and intramolecular reactions of polychloroaromatic compounds with copper, 1682–7
POLYCHLOROHALOPYRIDINE
Polyhalogenoaromatic compounds. Part 43. Inter– and intramolecular reactions of polychloroaromatic compounds with copper, 1682–7
POLYCYCLIC
A general and practicable synthesis of polycyclic heteroaromatic compounds. Part 1. Use of a putative quinolone–quinone–methide in the synthesis of polycyclic heteroaromatic compounds 512–21
A general and practicable synthesis of polycyclic heteroaromatic compounds. Part 2. Reaction of quinone–methides of pyridones, pyrimidines, coumarin, and benzene with aromatic amines in a novel synthesis of polycyclic heteroaromatic compounds, 522–8
Intramolecular photocycloaddition reactions of phenyl–vinyl bichromophoric systems, 1761–8
POLYENE
Cyclization of polyenes. Part 32. Selective bromination of polyenes by 2,4,4,6–tetrabromocyclohexa–2,5–dienone, 1051–6
Electroorganic reactions. Part 16. The preparative–scale cathodic hydrogenolysis and coupling of benzyl–, allyl–, cinnamyl–, and polyenylphosphonium salts, 1154–60
POLYHALO
Polyhaloaromatic compounds. Part 41. Photochemical dehalogenation and arylation reactions of polyhaloaromatic and polyhaloheteroaromatic compounds, 648–56
Metal–catalyzed organic photoreactions. Evidence for the long–range electron–transfer mechanism in the uranyl– or iron(III)–catalyzed photoreactions of olefins, 947–9
Polyhaloaromatic compounds. Part 42. Carbon–13 NMR spectra of polyhalopyridines and pyrimidines, 1370–80
POLYHYDRO
Polycyclic fluoroaromatic compounds. Part 9. Preparation and some reactions of decafluorofluoranthene, 1726–30
POLYHYDROXY
'Le BOP' reagent and imidazole for selective O–acylation of trehalose, 1940–3
POLYMER
Polymeric proanthocyanidins. Stereochemistry, structural units, and molecular weight, 2278–86
Polymer–supported phosphonates. Olefins from aldehydes, ketones, and dioxolanes by means of polymer–supported phosphonates, 2516–19
POLYMN
Cooligomerization of butadiene and carbon dioxide catalyzed by tertiary phosphine–palladium complexes, 693–8
POLYPRENOL
Structure and biosynthesis of cleomeprenols from the leaves of Cleome spinosa, 2098–104
POLYPROANTHOCYANIDIN
Polymeric proanthocyanidins. Stereochemistry, structural units, and molecular weight, 2278–86
POLYVINYLPYRIDINE
Coenzyme models. Part 23. Formation and reactivity of the stable 'quinone form' of flavin in cationic polymer matrixes, 1622–5
PORPHYRIN
Nitrosation and nitrosylation of hemoproteins and related compounds. Part 3. Attack at the vinyl groups of protoporphyrin dimethyl ester. X–ray analysis of $8^1(E)$–8^2–nitroprotoporphyrin

PORPHYRIN(contd)
dimethyl ester, 490–4
Meso-substitution reactions of rhodium(III)-octaethylporphyrins with organolithium reagents, 1641–5
POTENTIAL
The photoaddition of ethylenic hydrocarbons to benzene, 55–71
Metal-catalyzed organic photoreactions. Evidence for the long-range electron-transfer mechanism in the uranyl- or iron(III)-catalyzed photoreactions of olefins, 947–9
Restricted rotation about the carbon–nitrogen single bond of 1-aryl-4,6-dimethylpyrimidin-2(1H)-ones and the corresponding thiones, 1599–602
PRECALCIFEROL
Calciferol and its relatives. Part 28. A stereoselective synthesis of 1α-hydroxyprecalciferol$_3$ from (8-hydroxymethyl)des-AB-cholest-8-ene, 1405–6
PRECURSOR
Applications of substituted arylacetaldehydes in the total synthesis of seco-mesembrane alkaloids. Part 1. The total synthesis of (±)-O-methyljoubertiamine, 906–10
Further synthetic investigations in the eremophilane sesquiterpene group. Synthesis of (±)-isovalencenic acid, (±)-isovalencenol, and their (Z)-isomers, and experiments directed towards the synthesis of tessaric acid, 1752–5
Biosynthesis of ascochitine and synthesis of its biogenetic precursors 2549–53
PREGNADIENONE
Ring C aromatic steroids. Part 2. Rearrangement of 16α,17α-epoxy- and 17α-hydroxy-5,7-dienes, 556–62
PREGNANONE
18-Substituted steroids. Part 6. Synthesis of 3α,18-dihydroxy-11β,18-epoxy-5β-pregnan-20-one(21-deoxy-3α,5β-tetrahydroaldosterone), 2597–607
18-Substituted steroids. Part 7. Synthesis and structure of 11β,18-epoxy-3α,18,21-trihydroxy-5β-pregnan-20-one (3α,5β-tetrahydroaldosterone), 2818–29
PREGNENEDIONE
18-Substituted steroids. Part 5. Further studies on the synthesis of 11β,18,21-trihydroxypregn-4-ene-3,20-dione ('18-hydroxycorticosterone'), 2591–6
PREGNENOL
18-Substituted steroids. Part 5. Further studies on the synthesis of 11β,18,21-trihydroxypregn-4-ene-3,20-dione ('18-hydroxycorticosterone'), 2591–6
PREGNENOLACTONE
18-Substituted steroids. Part 5. Further studies on the synthesis of 11β,18,21-trihydroxypregn-4-ene-3,20-dione ('18-hydroxycorticosterone'), 2591–6
PRENYL
The allyl ether as a protecting group in carbohydrate chemistry. Part 11. The 3-methylbut-2-enyl ('prenyl') group, 738–40
PRENYLQUINOLONE
Quinoline alkaloids. Part 20. Synthesis of ptelefolone and O-methylribaline. Ring closure of epoxides of 3-prenylquinolones, 2294–9
PRIMARY
Synthesis of 5,6-dihydro-4H-1,3,5-dithiazines, 2,3-dihydro-6-thioxo-6H-1,3-thiazine, and 6-amino-1,3-dithiins, 1038–44
PROANTHOCYANIDIN
Polymeric proanthocyanidins. Stereochemistry, structural units, and molecular weight, 2278–86
PROCYANIDIN
Polymeric proanthocyanidins. Stereochemistry, structural units, and molecular weight, 2278–86
PRODELPHINIDIN
Polymeric proanthocyanidins. Stereochemistry, structural units, and molecular weight, 2278–86
PROPENYL
Partially fluorinated heterocyclic compounds. Part 12. Novel internal Diels–Alder adducts via Claisen rearrangement intermediates from tetrafluoro-4- and -3-pyridyl prop-2-enyl ethers. Syntheses of tetrafluoro-3-aza- and -4-aza-tricyclo[3.3.-1.0^{2,7}]non-3-en-6-one, 102–6
Photochemistry of substituted cyclic enones. Part 2. 5-[Prop-2-enyl]cyclopentenones, 1516–22
PROPENYLCYCLOPENTENONE
Photochemistry of substituted cyclic enones. Part 2. 5-[Prop-2-enyl]cyclopentenones, 1516–22
PROPIONAMIDE
Electrochemical oxidation of aromatic ethers. Part 6. Oxidation of 4-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-methyl-1,2,3,4-tetrahydroisoquinoline and attempted synthesis of 4-(3,4-dimethoxybenzyl)-6,7-dimethoxy-2-methyl-1,4-dihydro-3(2H)-isoquinolone, 2013–20
PROPIOPHENONE
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
PROPRANAL
Methods for the construction of linear 1,7-diarylheptanoids; synthesis of di-O-methylcentrolobol and precursors (synthetic and biosynthetic) to the meta,meta-bridged biphenyls myricanol and myricanone, 614–22
PROPYNYL
Base catalyzed rearrangements involving ylide intermediates. part 6. The rearrangements of diallyl- and allylpropynylammonium cations in protic media, 1477–86
PROSTAGLANDIN
Heterocyclic prostaglandin analogs. Part 2. Hydantoins and other imidazole analogs, 495–505
Total synthesis of prostaglandin-F$_{2\alpha}$ involving stereocontrolled and photo-induced reactions of bicyclo[3.2.0]heptanones, 852–7
Total synthesis of prostaglandin A$_2$ involving the reaction of a heterocuprate reagent with an allyl epoxide, 2084–7
Preparation and hydrolysis of some 4-substituted bicyclo[3.1.0]hex-2-ene-6-carboxaldehydes: synthesis of the prostaglandin A$_2$ analog possessing a butyl group in place of the octenol side chain 2088–92
Preparation and some reactions of 2-oxatricyclo[3.3.0.0^{4,6}]oct-7-en-3-one: synthesis of 9-deoxa-9,10-dehydroprostaglandin D$_2$, 2093–7
Conjugate, homoconjugate, and 1,2-additions of acetylene nucleophiles and their application to prostaglandin synthesis, 2346–52
PROSTANOIC
Conjugate, homoconjugate, and 1,2-additions of acetylene nucleophiles and their application to prostaglandin synthesis, 2346–52
PROTECTED
Pyrazolo[3,4-b]pyridines. The preparation of 1-protected-1H-pyrazolo[3,4-b]pyridines and attempts to remove the 1-substituent. Some reactions of 1-benzyl-1H-pyrazolo[3,4-b]pyridine and its 7-oxide, 938–42
PROTECTING
The allyl ether as a protecting group in carbohydrate chemistry. Part 11. The 3-methylbut-2-enyl ('prenyl') group, 738–40
PROTECTION
Removal of thioacetal protecting groups by benzeneseleninic anhydride, 1654–7
PROTECTIVE
The allyl ether as a protecting group in carbohydrate chemistry. Part 11. The 3-methylbut-2-enyl ('prenyl') group, 738–40
Oxidation of ketone and aldehyde hydrazones, oximes and semicarbazones, and of hydroxylamines, and hydrazo-compounds, using benzeneseleninic anhydride, 1212–17
PROTIUM
New insights into polyketide metabolism; the use of protium as a tracer in the biosynthesis of citrinin by Penicillium citrinum, 2244–8
PROTOBERBERINE
Alkaloid formation through N-oxide intermediates; regioselective synthesis of (±)-corytuberine by redox reaction, 629–32
Reaction of protoberberine-type alkaloids with phthalideisoquinoline alkaloids. Part 13. Biogenetic conversion of protoberberine alkaloids into phthalideisoquinoline alkaloids, 919–26
Studies on tetrahydroisoquinolines. Part 15. Lead tetraacetate oxidation of four hydroxytetrahydroprotoberberines, (±)-govanine, (±)-discretine, (±)-corytencine, and (±)-10-hydroxy-2,3,11-trimethoxytetrahydroprotoberberine, 1169–75
PROTONATION
Stable carbocations. Part 22. Stereochemistry of the deprotonation of ferrocenylalkylium ions, and of the protonation of alkenylferrocenes, 2213–17
PROTOPORPHYRIN
Nitrosation and nitrosylation of hemoproteins and related compounds. Part 3. Attack at the vinyl groups of protoporphyrin dimethyl ester. X-ray analysis of 8^1(E)-8^2-nitroprotoporphyrin dimethyl ester, 490–4

PROTOPORPHYRIN(contd)
Biosynthesis of porphyrins and related macrocycles. Part 13. Structure of the protoporphyrin isomer derived from coproporphyrinogen IV by the action of beef-liver coproporphyrinogenase: synthesis of protoporphyrin XIII, 1283–9
PSEUDO
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 15. The selective modification of neamine by radical-induced deamination, 2665–9
PSEUDOMONAS
The bacterial pigment from Pseudomonas lemonnieri. Part 1. Structure of a degradation product, 3-n-octanamidopyridine-2,5,6-trione, by x-ray crystallography, 1782–7
The bacterial pigment from Pseudomonas lemonnieri. Part 2. The synthesis of 3-n-octanamidopyridine-2,5,6-trione: the structure and synthesis of lemonnierin, 1788–95
PTELEFOLONE
Quinoline alkaloids. Part 20. Synthesis of ptelefolone and O-methylribaline. Ring closure of epoxides of 3-prenylquinolones, 2294–9
PTELEFOLONIUM
Quinoline alkaloids. Part 19. Synthesis of O-methylptelefolonium iodide and (±)-dubinidine, 1136–8
PTEROCARPAN
Structure and synthesis of isoflavonoid analogs from Neorautanenia amboensis Schinz, 1804–9
PTEROCARPUS
Novel α-methyldeoxybenzoins from the heartwood of Pterocarpus angolensis D.C.: absolute configuration and conformation of the first sesquiterpenylangolensins, and x-ray crystal structure of 4-O-α-cadinylangolensin, 2179–83
PURINE
Purines, pyrimidines and imidazoles. Pasrt 52. New syntheses of some 1-β-D-arabinofuranosylaminoimidazoles and of related purine nucleosides, including 9-β-D-arabinofuranosyladenine, 2304–9
Purines, pyrimidines, and imidazoles. Part 54. Interconversion of some intermediates in the de novo biosynthesis of purine nucleotides, 2316–21
Studies on organic fluorine compounds. Part 35. Trifluoromethylation of pyrimidine and purine nucleosides with trifluoromethyl-copper complex, 2755–62
PYAZOLE
Competitive cyclizations of singlet and triplet nitrenes. Part 8. The 1-(2-nitrenophenyl)pyrazoles and related systems, 982–94
PYRANOINDOLEDIONE
Reactions of 4,5-dihydro-5-methylpyrano[4,3-b]indole-1,3-dione; a synthesis of N-methylisotryptophol, 1688–92
PYRANOINDOLONE
Reactions of 4,5-dihydro-5-methylpyrano[4,3-b]indole-1,3-dione; a synthesis of N-methylisotryptophol, 1688–92
PYRAZINE
Ring opening or rearrangement versus N-oxidation in the action of peracids upon pyrrolo[2,3-b]pyridines, pyrrolo[2,3-b]pyrazines, and triazolo[1,5-a-]- and triazolo[4,3-a]pyrazine. Some chemical and spectroscopic properties of the triazolopyrazines and their N-oxides, 506–11
Pyrazines. Part 5. Preparation of 3,8-diazabicyclo[3.2.1]octane-2,4-dione derivatives, 1603–6
Nucleophilic displacement and spiro-complex formation in NN'-dimethyl-N-picrylethylenediamine, 2205–8
PYRAZINOPYRROLIZINE
Heterocyclic compounds with bridgehead nitrogen atoms. Part 7. The synthesis of pyrrolo[2,1,5-cd]indolizines ([2,2,3]cyclazines) and pyrazino[2,1,6-cd]cyclazines) (6-aza[2,2,3]cyclazines) from 3H-pyrrolizine, 1319–23
PYRAZOLE
Conversion of pyridines and quinolines into pyridazines and pyrazoles, 72–7
New steroidal heterocycles: the synthesis and structure of androsteno[2,3-g]-, androstano[3,2-f]-, and androsteno[16,17-g]pyrazolo[1,5-a]pyrimidines, 481–6
C-Nucleoside studies. Part 9. Synthesis of 3(5)-α-D-ribofuranosylpyrazole and related compounds, 2561–6
C-Nucleoside studies. Part 10. A new synthesis of 3-(2,3,5-tri-O-benzyl-β-D-ribofuranosyl)pyrazole and its conversion into 4-nitro-3(5)-β-D-ribofuranosylpyrazole, 2567–71
PYRAZOLOBENZOCINNOLINONE
Reaction of benzo[c]cinnolinium-5-(N-acyl- and N-benzimidoimides) with diphenylcyclopropenone, 1147–9
PYRAZOLOBENZOPYRANONE
Reaction of 1,3-dipoles with 3-pyrrolidino-2-benzopyran-1-one, 846–8
PYRAZOLOPYRIDINE
Pyrazolo[3,4-b]pyridines. The preparation of 1-protected-1H-pyrazolo[3,4-b]pyridines and attempts to remove the 1-substituent. Some reactions of 1-benzyl-1H-pyrazolo[3,4-b]pyridine and its 7-oxide, 938–42
Pyrazolopyridines. Part 5. Preparation and reactions of pyrazolo[3,4-c]pyridines, 2398–404
PYRAZOLOPYRIMIDONE
X-ray analysis of 6-ethoxycarbonyl-4-ethylpyrazolo[1,5-a]pyrimid-7(4H)-one and 6-ethoxycarbonyl-4-ethyl-1,2,4-triazolo[1,5-a]pyrimid-7(4H)-one, 1347–51
PYRAZOLOTRIAZOLOPHENAZINIUM
Singlet oxygen photooxidation of some triazapentalenes, 2904–8
PYRETHROID
Pyrethroid photochemistry: mechanistic aspects in reactions of the (dihalovinyl)cyclopropanecarboxylate substituent, 728–32
PYRIDAZINE
Conversion of pyridines and quinolines into pyridazines and pyrazoles, 72–7
PYRIDINE
Addition reactions of heterocyclic compounds. Part 70. Formation of quinolizines and indolizines from nicotine derivatives and acetylenic esters, 78–80
Addition reactions of heterocyclic compounds. Part 71. The formation of 1,3a,3b,4,6a,6b-hexahydrocyclopenta[3,4]cyclobuta[1,2-b]pyrroles from dimethyl acetylenedicarboxylate and 1-aryl-1,4-dihydropyridines, 81–4
Heterocyclic polyfluoro compounds. Part 29. 2:1 Adducts by photochemical addition of cycloalkenes to pentafluoropyridine, 129–31
1,3-Dipolar character of six-membered aromatic rings. Part 48. Novel conversions of pyridines to isoquinolines, 331–42
Ring opening or rearrangement versus N-oxidation in the action of peracids upon pyrrolo[2,3-b]pyridines, pyrrolo[2,3-b]pyrazines, and triazolo[1,5-a-]- and triazolo[4,3-a]pyrazine. Some chemical and spectroscopic properties of the triazolopyrazines and their N-oxides, 506–11
Polyhaloaromatic compounds. Part 41. Photochemical dehalogenation and arylation reactions of polyhaloaromatic and polyhaloheteroaromatic compounds, 648–56
Lythraceous alkaloids. Part 11. Total synthesis of (±)-lythranidine 1066–9
Heterocycles in organic synthesis. Part 13. The reaction of 2,4-diphenylthiopyrylium perchlorate with amines, 1345–6
Polyhaloaromatic compounds. Part 42. Carbon–13 NMR spectra of polyhalopyridines and pyrimidines, 1370–80
Polyhalogenoaromatic compounds. Part 43. Inter- and intramolecular reactions of polychloroaromatic compounds with copper, 1682–7
Regioselective nucleophilic addition of organolithium compounds to 3-(4,4-dimethyloxazolin-2-yl)pyridine, 2070–6
Bridged-ring nitrogen compounds. Part 3. Synthesis of representatives of the 1,5-methano-4-benzazonine ring system, 2141–5
Pyrazolopyridines. Part 5. Preparation and reactions of pyrazolo[3,4-c]pyridines, 2398–404
Evidence for the mechanism of formation of N-(1,2-dihydrobenzocyclobut-1-enyl)pyridinium bromides and acetophenones from bisdibromocyclopropane adducts, 2405–7
Synthetic applications of N–N linked heterocycles. Part 8. Regiospecific synthesis of 4-(α-acylalkyl) pyridines by attack of lithium enolates of ketones γ to N-(2,6-dimethyl-4-oxopyridin-1-yl)pyridinium salts, 2458–62
Synthetic applications of N–N linked heterocycles. Part 7. The preparation of 4-alkyl- and 4-aryl-pyridines by regiospecific attack of Grignard reagents γ to quaternary nitrogen in N-(2,6-dimethyl-4-oxopyridin-1-yl)pyridinium salts, 2480–4
Heterocyclic polyfluoro compounds. Part 32. Photochemical reactions of 3-chlorotetrafluoro- and 3,5-dichlorotrifluoropyridines with olefins, and their photoreduction, 2520–2
The photoreactions of pyridine and 2-fluoropyridine with aliphatic amines, 2531–4
PYRIDINETRIONE
The bacterial pigment from Pseudomonas lemonnieri. Part 1. Structure of a degradation product, 3-n-octanamidopyridine-2,5,6-trione, by x-ray crystallography, 1782–7

PYRIDINETRIONE(contd)
The bacterial pigment from Pseudomonas lemonnieri. Part 2. The synthesis of 3-n-octanamidopyridine-2,5,6-trione: the structure and synthesis of lemonnierin, 1788-95
PYRIDINIUM
Conversion of pyridines and quinolines into pyridazines and pyrazoles, 72-7
Heterocycles in organic synthesis. Part 42. Preparation of azides, phthalimides, and sulfonamides from primary amines, 849-50
1,3-Dipolar character of six-membered aromatic rings. Part 52. 2π + 8π cycloaddition reactions of 1-substituted 3-oxidopyridinium betaines, 1176-84
Heterocycles in organic synthesis. Part 40. Oxidation of 2,4,6-triarylpyridinium betaines and 2,4,6-triarylpyridinium perchlorates by hydrogen peroxide, 1870-8
Heterocycles in organic synthesis. Part 34. The photocyclization of 1,2-diarylpyridinium cations and the photobiscyclization of 1,2,6-triarylpyridinium cations, 1879-87
2-Pyridones and 4-pyridones by oxidative demethylation of 2- and 4-methylpyridinium cations, 1888-9
Improved methods for conversion of primary amines into bromides 1890-4
The synthesis and reactions of sterically constrained pyrylium and pyridinium salts, 1895-900
Purines, pyrimidines, and imidazoles. Part 54. Interconversion of some intermediates in the de novo biosynthesis of purine nucleotides, 2316-21
Evidence for the mechanism of formation of N-(1,2-dihydrobenzocyclobut-1-enyl)pyridinium bromides and acetophenones from bisdibromocyclopropane adducts, 2405-7
Synthetic applications of N-N linked heterocycles. Part 7. The preparation of 4-alkyl- and 4-aryl-pyridines by regiospecific attack of Grignard reagents γ to quaternary nitrogen in N-(2,6-dimethyl-4-oxopyridin-1-yl)pyridinium salts, 2480-4
The preparation of primary alkyl and benzyl fluorides from the corresponding primary amines, 2901-3
PYRIDINONE
Oxidation of enamine esters with lead tetraacetate. Part 1. Products from some N-alkylaminofumarates, 156-62
PYRIDOAZACYCLOTETRADECINE
A tautomerizable macrocyclic compound containing two aza-bridged 2,2'-bipyridine moieties, 2527-30
PYRIDOCARBAZOLE
The preparation of 2,3-dihydro-1H-pyrrolo[1,2-a]indole, 2,3-dihydro-9-methyl-1H-pyrrolo[1,2-a]indole, 1,2,2a,3,4,5-hexahydropyrrolo[3,2,1-jk]-carbazole, and 2,3,3a,4,5,6-hexahydro-1H-pyrido[3,2,1-jk]carbazole, 97-101
PYRIDOIMIDAZOLE
Cycloaddition reactions of isonitrosoflavanone esters with Schiff bases and with heteroaromatic rings, 354-61
PYRIDONE
2-Pyridones and 4-pyridones by oxidative demethylation of 2- and 4-methylpyridinium cations, 1888-9
N-Oxides and related compounds. Part 60. Novel thermal and photochemical rearrangements of N-substituted 2-pyridones, 2743-54
α-(4,6-Diphenyl-2-oxo-1-pyridyl)benzyllithiums and their reactions with electrophiles, 2851-5
PYRIDOPYRIMIDINE
Nitrogen bridgehead compounds. Part 6. Ring transformation. Part 3. Thermal cyclization of diethyl 2-(2-pyridylaminomethylene)succinates and -glutarates, 227-32
PYRIDOQUINOXALINE
Alkynyl- and dialkylnylquinoxalines. Synthesis of condensed quinoxalines, 1384-9
PYRIDYL
Mesoionic compounds. Part 10. A study of the reactions of 3-(3-pyridyl)sydnone with some nucleophilic reagents, 20-6
Partially fluorinated heterocyclic compounds. Part 12. Novel internal Diels-Alder adducts via Claisen rearrangement intermediates from tetrafluoro-4- and -3-pyridyl prop-2-enyl ethers. Syntheses of tetrafluoro-3-aza- and -4-aza-tricyclo[3.3.-1.0^{2,7}]non-3-en-6-one, 102-6
Nitrogen bridgehead compounds. Part 6. Ring transformation. Part 3. Thermal cyclization of diethyl 2-(2-pyridylaminomethylene)succinates and -glutarates, 227-32
PYRIDYLAMINOACETALDEHYDE
Diazaindenes (azaindoles). Part 7. Formation of imidazo[1,2-a]pyridinium-8-carboxylate in an attempt to prepare pyrrolo[2,3-b]pyridin-3-one, 132-5
PYRIDYLBENZOTRIAZINONE
1,2,3-Benzotriazin-4-ones and related systems. Part 6. Thermal and photolytic decomposition of 3-arylideneamino-, 3-imidoyl-, and 3-heteroaryl-1,2,3-benzotriazin-4-ones, 633-8
PYRIDYLBENZYLLITHIUM
α-(4,6-Diphenyl-2-oxo-1-pyridyl)benzyllithiums and their reactions with electrophiles, 2851-5
PYRIDYLCYCLOALKENE
Polyhaloaromatic compounds. Part 44. Reactions of enamines with polyhalopyridines and their N-oxides, 2709-16
PYRIDYLENAMINE
Polyhaloaromatic compounds. Part 44. Reactions of enamines with polyhalopyridines and their N-oxides, 2709-16
PYRIDYLGLUTARATE
Nitrogen bridgehead compounds. Part 6. Ring transformation. Part 3. Thermal cyclization of diethyl 2-(2-pyridylaminomethylene)succinates and -glutarates, 227-32
PYRIDYLIDENETHIOXOINDENONE
Reaction of monothio derivatives of 2-heteroarylideneindene-1,3(2H)-diones with quinones, 1070-5
PYRIDYLIMINE
The bacterial pigment from Pseudomonas lemonnieri. Part 2. The synthesis of 3-n-octanamidopyridine-2,5,6-trione: the structure and synthesis of lemonnierin, 1788-95
PYRIDYLMETHYLANILINOMETHYL
Light-induced reactions of heteroaryl N-methylanilinomethyl ketones: formation of 3-heteroaryl-1-phenylazetidin-3-ols, 2371-3
PYRIDYLPYRROLINONE
Nitrogen bridgehead compounds. Part 6. Ring transformation. Part 3. Thermal cyclization of diethyl 2-(2-pyridylaminomethylene)succinates and -glutarates, 227-32
PYRIDYLSUCCINATE
Nitrogen bridgehead compounds. Part 6. Ring transformation. Part 3. Thermal cyclization of diethyl 2-(2-pyridylaminomethylene)succinates and -glutarates, 227-32
PYRIDYLSYDNONE
Mesoionic compounds. Part 10. A study of the reactions of 3-(3-pyridyl)sydnone with some nucleophilic reagents, 20-6
PYRIMIDINE
2-Imidazolines. Part 2. Pyrolysis of 1-acyl-4,5-diamino-4,5-dihydroimidazoles: a novel pyrimidine synthesis, 722-7
Polyhaloaromatic compounds. Part 42. Carbon-13 NMR spectra of polyhalopyridines and pyrimidines, 1370-80
Reactions of halomethanes in the vapor phase. Part 4. The reactions of imidazoles with chloroform at 500°C, and a comparison with their liquid-phase reactions with trichloroacetate ion or hexachloroacetone and base, 1427-30
Bacteriostatic activity of fluoro analogs of 5-(2-hydroxyethyl)-4-methylthiazole, a metabolic intermediate in the biosynthesis of thiamine, 2026-8
Studies on organic fluorine compounds. Part 35. Trifluoromethylation of pyrimidine and purine nucleosides with trifluoromethyl-copper complex, 2755-62
PYRIMIDINEDICARBOXYLATE
New heterospiro-ring systems by condensation of some heterocyclic o-dicarboxylates with 1,3-diphenylguanidine, 1667-70
PYRIMIDINETHIONE
Synthesis of heterocyclic compounds via enamines. Part 8. Acid-catalyzed transformations in 4,4,6-trimethyl-1,4-dihydropyrimidine-2(3H)-thione derivatives and related compounds, 1013-18
PYRIMIDINONE
Photochemical electrocyclization of 1,4,6-trisubstituted pyrimidin-2-ones to 2-oxo-1,3-diazabicyclo[2.2.0]hex-5-enes, 607-10
Reaction of benzo[c]cinnolinium-5-(N-acyl- and N-benzimidoimides) with diphenylcyclopropenone, 1147-9
Restricted rotation about the carbon-nitrogen single bond of 1-aryl-4,6-dimethylpyrimidin-2(1H)-ones and the corresponding thiones, 1599-602
PYRIMIDOQUINOLINEDIONE
A novel synthesis of pyrimido[4,5-b]quinoline-2(3H),4(10H)-diones (5-deazaflavins) and analogs by the oxidative cyclization of 5,5'-arylmethylenebis(6-alkylamino-3-methyluracils), 978-81
PYROLYSIS
Fluoro olefin chemistry. Part 12. Some reactions of 3,4-dihalotetrafluorocyclobutenes: a synthesis of perfluorocyclooctatetraene, 122-5
Cyclopropane chemistry. Part 4. The reactions of 1,2,2-trifluoroeth-

PYROLYSIS(contd)
ylidene with alkenes and pyrolysis of the resulting cyclopropanes, 314–24
Fluoro olefin chemistry. Part 13. A further route to perfluoro-2,3-dimethylbut-2-ene and the photochemical rearrangement of some perfluoroalkyl olefins, 487–9
A general and practicable synthesis of polycyclic heteroaromatic compounds. Part 1. Use of a putative quinolone-quinone-methide in the synthesis of polycyclic heteroaromatic compounds, 512–21
A general and practicable synthesis of polycyclic heteroaromatic compounds. Part 2. Reaction of quinone-methides of pyridones, pyrimidines, coumarin, and benzene with aromatic amines in a novel synthesis of polycyclic heteroaromatic compounds, 522–8
Pyrolytic elimination of hydrogen halide and halogen from 2,3-dihaloketones, 1299–305
Benzocyclobutenes. Part 4. Synthesis of benzocyclobutene-1,2-diones by pyrolytic methods, 1834–40
Benzocyclobutenes. Part 5. Synthesis of 4-hydroxy-, 4,5-dihydroxy-, and 3,6-dihydroxy-benzocyclobutene-1,2-dione (benzologs of semisquaric and squaric acid), 1841–6
Improved methods for conversion of primary amines into bromides 1890–4
The thermolysis of polyazapentadienes. Part 1. 1,5-Diaryl-1,2,5-triaza derivatives, 2200–4
Heterocyclic polyfluoro-compounds. Part 32. Perfluoroalkylation of trifluoro-1,2,4-triazine, 2254–7
Heterocyclic polyfluoro-compounds. Part 33. Photochemical oxetane formation from fluoro ketones and perfluoro aldehydes and 1,2-difluoroethylene, 2258–67
Synthesis and reactions of 5-arylamino-1,2,4-trioxanes, 2300–3
N-Oxides and related compounds. Part 60. Novel thermal and photochemical rearrangements of N-substituted 2-pyridones, 2743–54
The preparation of primary alkyl and benzyl fluorides from the corresponding primary amines, 2901–3

PYRROLE
Oxidation of enamine esters with lead tetraacetate. Part 1. Products from some N-alkylaminofumarates, 156–62
Cyanation using the combined reagent, triphenylphosphine-thiocyanogen (TPPT): a new general route to indole and pyrrole carbonitriles, 1132–5
Synthesis of 3-(polyacetoxyalkyl)pyrroles from 3-aminocrotonic esters and open-chain sugar nitro olefins, 1199–205

PYRROLIDINE
Reaction of 1,3-dipoles with 3-pyrrolidino-2-benzopyran-1-one, 846–8

PYRROLIDINECARBONYL
Reaction of 1,3-dipoles with 3-pyrrolidino-2-benzopyran-1-one, 846–8

PYRROLIDINEDIONE
Structural investigations of 3-acylpyrrolidine-2,4-diones by nuclear magnetic resonance spectroscopy and x-ray crystallography, 1057–65

PYRROLIDINETHIONE
Studies on the synthesis of heterocyclic compounds. Part 832. A simple and efficient synthesis of apomitomycin derivatives; potential intermediate for mitomycin synthesis, 1607–13

PYRROLIDINO
Reaction of 1,3-dipoles with 3-pyrrolidino-2-benzopyran-1-one, 846–8

PYRROLIDINOBENZOPYRANONE
Reaction of 1,3-dipoles with 3-pyrrolidino-2-benzopyran-1-one, 846–8

PYRROLIDINYL
Unusual regio- and stereochemistry in the reaction of methyl (E)- and (Z)-β-styryl sulfone with pyrrolidin-1-yl-4-tert-butylcyclohexene, 686–9

PYRROLIDINYLACETATE
Synthetic studies in the α-kainic acid (2,3-trans,3,4-cis-2-carboxy-4-isopropenylpyrrolidin-3-ylacetic acid) series, 2542–8

PYRROLIDINYLCYCLOHEXENE
Unusual regio- and stereochemistry in the reaction of methyl (E)- and (Z)-β-styryl sulfone with pyrrolidin-1-yl-4-tert-butylcyclohexene, 686–9

PYRROLIDINYLIDENEACETATE
Studies on the synthesis of heterocyclic compounds. Part 832. A simple and efficient synthesis of apomitomycin derivatives; potential intermediate for mitomycin synthesis, 1607–13

PYRROLINYLMETHYLPHTHALIMIDE
Photochemical cyclization of phthalimide Mannich bases, 93–6

PYRROLIZINIUM
Heterocyclic compounds with bridgehead nitrogen atoms. Part 7. The synthesis of pyrrolo[2,1,5-cd]indolizines ([2,2,3]cyclazines) and pyrazino[2,1,6-cd]cyclazines) (6-aza[2,2,3]cyclazines) from 3H-pyrrolizine, 1319–23
Heterocyclic compounds with bridgehead nitrogen atoms. Part 8. The synthesis and properties of cyclopenta[4,5]azepino[7,1,2-cd]pyrrolizine (cyclopenta[h][2.2.4]cyclazine), 1324–30

PYRROLO
Ring opening or rearrangement versus N-oxidation in the action of peracids upon pyrrolo[2,3-b]pyridines, pyrrolo[2,3-b]pyrazines, and triazolo[1,5-a-]- and triazolo[4,3-a]pyrazine. Some chemical and spectroscopic properties of the triazolopyrazines and their N-oxides, 506–11

PYRROLOCARBAZOLE
The preparation of 2,3-dihydro-1H-pyrrolo[1,2-a]indole, 2,3-dihydro-9-methyl-1H-pyrrolo[1,2-a]indole, 1,2,2a,3,4,5-hexahydropyrrolo[3,2,1-jk]-carbazole, and 2,3,3a,4,5,6-hexahydro-1H-pyrido[3,2,1-jk]carbazole, 97–101

PYRROLOINDOLE
The preparation of 2,3-dihydro-1H-pyrrolo[1,2-a]indole, 2,3-dihydro-9-methyl-1H-pyrrolo[1,2-a]indole, 1,2,2a,3,4,5-hexahydropyrrolo[3,2,1-jk]-carbazole, and 2,3,3a,4,5,6-hexahydro-1H-pyrido[3,2,1-jk]carbazole, 97–101
Studies on the synthesis of heterocyclic compounds. Part 832. A simple and efficient synthesis of apomitomycin derivatives; potential intermediate for mitomycin synthesis, 1607–13
The reactions of four derivatives of pyrrolo[1,2-a]indole with arenesulfonyl azides, 2870–7

PYRROLOINDOLIZINE
Heterocyclic compounds with bridgehead nitrogen atoms. Part 7. The synthesis of pyrrolo[2,1,5-cd]indolizines ([2,2,3]cyclazines) and pyrazino[2,1,6-cd]cyclazines) (6-aza[2,2,3]cyclazines) from 3H-pyrrolizine, 1319–23

PYRROLOPYRAZINE
Ring opening or rearrangement versus N-oxidation in the action of peracids upon pyrrolo[2,3-b]pyridines, pyrrolo[2,3-b]pyrazines, and triazolo[1,5-a-]- and triazolo[4,3-a]pyrazine. Some chemical and spectroscopic properties of the triazolopyrazines and their N-oxides, 506–11

PYRROLOPYRROLE
Oxidation of enamine esters with lead tetraacetate. Part 1. Products from some N-alkylaminofumarates, 156–62

PYRROLOQUINOXALINE
Alkynyl- and dialkylnylquinoxalines. Synthesis of condensed quinoxalines, 1384–9

PYRROLYLMETHYL
Photochemical cyclization of phthalimide Mannich bases, 93–6

PYRROLYLMETHYLANILINOMETHYL
Light-induced reactions of heteroaryl N-methylanilinomethyl ketones: formation of 3-heteroaryl-1-phenylazetidin-3-ols, 2371–3

PYRYLIUM
The synthesis and reactions of sterically constrained pyrylium and pyridinium salts, 1895–900

QUATERNARY
Base catalyzed rearrangements involving ylide intermediates. Part 2. The Stevens [1,2] and [3,2] sigmatropic rearrangements of allylic ammonium ylides, 1450–7

QUINIZARIN
Studies related to anthracyclines. Part 1. Some Diels–Alder reactions of 4a,9a-epoxy-4a,9a-dihydroanthracene-1,4,9,10-tetrone, 1007–12

QUINOL
Preparation and acid-catalyzed rearrangements of a steroidal 1,4-quinol, 1679–81

QUINOLINE
Quinoline alkaloids. Part 19. Synthesis of O-methylptelefolonium iodide and (±)-dubinidine, 1136–8
Selectivity in the hydrogenation of 6- and 8-substituted quinolines, 1933–9
Catalytic and noncatalytic addition of aromatic amines to terminal acetylenes in the presence of mercury(II) chloride and acetate, 2732–7
Photochemistry of methoxy-substituted quinoline and isoquinoline N-oxides, 2738–42

QUINOLINIUM
Conversion of pyridines and quinolines into pyridazines and pyrazoles, 72–7
QUINOLIZINE
Addition reactions of heterocyclic compounds. Part 70. Formation of quinolizines and indolizines from nicotine derivatives and acetylenic esters, 78–80
QUINOLONE
Photocyclization of enamides. Part 14. Substituent effects in the photocyclization of N-α,β-unsaturated acylanilides, 197–202
Formation of 2,3-dihydro-4(1H)-quinolones and related compounds via Fries-type acid-catalyzed rearrangement of 1-arylazetidin-2-ones, 2105–11
QUINONE
A general and practicable synthesis of polycyclic heteroaromatic compounds. Part 1. Use of a putative quinolone-quinone-methide in the synthesis of polycyclic heteroaromatic compounds 512–21
A general and practicable synthesis of polycyclic heteroaromatic compounds. Part 2. Reaction of quinone-methides of pyridones, pyrimidines, coumarin, and benzene with aromatic amines in a novel synthesis of polycyclic heteroaromatic compounds, 522–8
Reaction of monothio derivatives of 2-heteroarylideneindene-1,3(2H)-diones with quinones, 1070–5
A general and practicable synthesis of polycyclic heteroaromatic compounds. Part 3. Extension of the synthesis to 'quinone methides' of naphthalene, phenanthrene, and benzene, 1233–9
Intramolecular alkylation of phenols. Part 5. A regiospecific anionic ring closure of phenols via quinone methides, 1567–77
Reduction of ortho-quinones to dihydrodiols, 1920–3
Adducts from quinones and diazoalkanes. Part 9. The adduct from 2-methyl-1,4-naphthoquinone and diazoethane and the derived secondary carbanion: regioisomerism in carbanion-quinone additions, 1994–2000
QUINOXALINE
Alkynyl- and dialkylnylquinoxalines. Synthesis of condensed quinoxalines, 1384–9
The thermolysis of polyazapentadienes. Part 1. 1,5-Diaryl-1,2,5-triaza derivatives, 2200–4
RACEMIZATION
o-Quinonoid compounds. Part 16. 1,5-Shift of vinyl groups in 1,3-dimethylindenes; product studies and migratory aptitudes of substituted vinyl groups, 714–21
o-Quinonoid compounds. Part 17. Evidence for exo-selectivity in the 1,5-sigmatropy of acyl and vinyl groups, 1909–15
RADICAL
Polyfluorobicyclo[2.2.1]heptanes. Part 11. Bridgehead radicals: their generation, reactions, and CIDNP effects, 217–20
Nitroxide chemistry. Part 13. Reaction of NN-bis(trifluoromethyl)-amino-oxyl with hexafluoroisopropylideneimine and related compounds, 406–9
Electrochemical reactions. Part 23. Intramolecular radical substitution during the reduction of 2-halo-N-methyl-N-naphthylbenzamides, 657–60
Radical-initiated reduction of chloroformates to alkanes by tri-n-propylsilane. A method for removal of unwanted hydroxy-groups from organic molecules, 1207–11
Radical-nucleophilic substitution ($S_{RN}1$) reactions: preparation and reactions of α-nitrosulfides, 1407–13
RAMIREZ
Preparation of sugars with branched chains, a methylene bridge, or C-1-phenyl substituents by the Ramirez dioxaphosphole condensation, 1262–6
REACTION
Mesoionic compounds. Part 10. A study of the reactions of 3-(3-pyridyl)sydnone with some nucleophilic reagents, 20–6
The reaction between cyanide ion and nitrones; a new imidazole synthesis, 244–8
Nitroxide chemistry. Part 13. Reaction of NN-bis(trifluoromethyl)-amino-oxyl with hexafluoroisopropylideneimine and related compounds, 406–9
Acid-catalyzed reactions of 1α,2α-epoxy-1β-methyl- and 1α-hydroxy-1β-methyl 5α-steroids, 440–3
Addition reactions of heterocyclic compounds. Part 72. Dimethyl acetylenedicarboxylate with 1,2,6,7,8,9-hexahydropyrrolo[3,2,1-jk]carbazole, 535–9
Lewis-acid-induced electrophilic substitution in indoles with acetone. Part 2, 553–5
Heterocyclic compounds. Part 6. Synthesis of 1,3,4-thiadiazolidines from the reactions of phenyl hydrazones with phenyl isothiocyanate and carbon disulfide, 574–8
Methods for the construction of linear 1,7-diarylheptanoids; synthesis of di-O-methylcentrolobol and precursors (synthetic and biosynthetic) to the meta,meta-bridged biphenyls myricanol and myricanone, 614–22
A new synthetic approach towards adriamycin, 643–7
[6+3] Cycloadditions of 1,1- and 1,3-diphenyl-2-azaallyllithium to cycloheptatriene, 672–4
Unusual regio- and stereochemistry in the reaction of methyl (E)- and (Z)-β-styryl sulfone with pyrrolidin-1-yl-4-tert-butylcyclohexene, 686–9
Ene-type reactions involving transfer of acyl groups. Addition of 4-phenyl-1,2,4-triazoline-3,5-dione to various unsaturated compounds, 843–5
Reaction of 1,3-dipoles with 3-pyrrolidino-2-benzopyran-1-one, 846–8
Heterocycles in organic synthesis. Part 36. An alternative to the Gattermann reaction for the conversion of anilines into thiocyanates, 865–8
Addition of free radicals to unsaturated systems. Part 23. Photochemical and thermal reactions of trifluoroiodomethane with but-2-ene and but-1-ene, 927–32
Synchronous skeletal rearrangement of D-nor-5α-androstane-16α- and -16β-carbonyl m-chlorobenzoyl peroxides, 943–6
Reaction of monothio derivatives of 2-heteroarylidenecindene-1,3(2H)-diones with quinones, 1070–5
The participation of 3,5-cyclosteroids in aromatization reactions, 1306–10
Reactions of halomethanes in the vapor phase. Part 4. The reactions of imidazoles with chloroform at 500°C, and a comparison with their liquid-phase reactions with trichloroacetate ion or hexachloroacetone and base, 1427–30
Reactions of halomethanes in the vapor phase. Part 5. The reactions of imidazolines, anils, and 1-methylimidazole with chloroform at 550°C, and a comparison with their liquid-phase reactions with trichloroacetate ion or hexachloroacetone and base, 1431–5
Polyfluoroalkyl derivatives of nitrogen. Part 48. The addition of N-haloamines $(CF_3)_2NX$ to cyclohexa-1,3- and -1,4-dienes; a new synthesis of NN-bis(trifluoromethyl)aniline, 1544–50
Product formation and identification in the reaction of 6-endo-hydroxy-5-exo-iodo-3-exo-phenylnorborn-2-endo-ylcarboxylic acid γ-lactone with silver toluene-p-sulfonate, 1578–82
Chemistry of O-alkyl selenoesters. Reaction with triethylphosphine 1627–34
Polyhalogenoaromatic compounds. Part 43. Inter- and intra-molecular reactions of polychloroaromatic compounds with copper, 1682–7
Ketene. Part 17. Addition reactions of ketenes with N-phenyl nitrones, 1700–5
New olefin and oxirane syntheses from carbonyl compounds, and diethyl sodiophosphonate anions and 1-aminophosphonate amino-anions, 1731–8
Further synthetic investigations in the eremophilane sesquiterpene group. Synthesis of (±)-isovalencenic acid, (±)-isovalencenol, and their (Z)-isomers, and experiments directed towards the synthesis of tessaric acid, 1752–5
Polyfluoroalkyl derivatives of nitrogen. Part 49. Ene reactions of trifluoronitrosomethane: formation of N-trifluoromethylhydroxylamines, 1960–4
Bridged-ring nitrogen compounds. Part 3. Synthesis of representatives of the 1,5-methano-4-benzazonine ring system, 2141–5
Synthesis and reactions of 5-arylamino-1,2,4-trioxanes, 2300–3
Purines, pyrimidines and imidazoles. Part 53. Synthesis of some 5-halo analogs of metiamide and cimetidine, 2310–15
Sulfur nitrides in organic chemistry. Part 8. Reaction of tetrasulfur tetranitride with Grignard reagents and organolithium compounds, 2417–21
Reactions of alkyllithium compounds with aryl halides, 2617–25
The reactions of four derivatives of pyrrolo[1,2-a]indole with arenesulfonyl azides, 2870–7
Steric effects in the ring expansion of coumarins by 2-diazopropane and tert-butyldiazomethane, 2937–42
REACTIVITY
Coenzyme models. Part 23. Formation and reactivity of the stable 'quinone form' of flavin in cationic polymer matrixes, 1622–5
Enamine chemistry. Part 27. The effect of additional α- and β-heteroatoms on the p_π-conjugation and reactivity of enamines.

REACTIVITY(contd)
Sub or super enamines?, 2383–6
REAGENT
Reactions of conjugated arylazocycloalkenes with Grignard reagents. Part 3. A convenient synthesis of 2,6-diaryl- and 2-alkyl-6-arylcyclohexanones, 240–3
REARRANGEMENT
Photochemical cyclization of phthalimide Mannich bases, 93–6
Acid-catalyzed reactions of 1α,2α-epoxy-1β-methyl- and 1α-hydroxy-1β-methyl 5α-steroids, 440–3
Pentacarbonyliron-promoted conversion of 3a,7a-dihydroindenones into indanones, 444–7
Ring opening or rearrangement versus N-oxidation in the action of peracids upon pyrrolo[2,3-b]pyridines, pyrrolo[2,3-b]pyrazines, and triazolo[1,5-a-]- and triazolo[4,3-a]pyrazine. Some chemical and spectroscopic properties of the triazolopyrazines and their N-oxides, 506–11
Ring C aromatic steroids. Part 2. Rearrangement of 16α,17α-epoxy- and 17α-hydroxy-5,7-dienes, 556–62
1,2,3-Benzotriazin-4-ones and related systems. Part 6. Thermal and photolytic decomposition of 3-arylideneamino-, 3-imidoyl-, and 3-heteroaryl-1,2,3-benzotriazin-4-ones, 633–8
Acid-catalyzed rearrangement of bis-5,6-dihydro-4H-1,3-thiazin-2-yl and other disulfides and related reactions, 665–71
Diisophorone and related compounds. Part 5. 2,7-Epoxydiisophoranes: oxirane cleavage by perchloric acid, 733–7
Synthesis of [1,3,5]thiadiazino[3,2-a]benzimidazole-2,4(3H)-diones and their sulfur analogs, 762–5
N-Halo compounds. Part 7. Synthesis and iodine-catalyzed rearrangement to 6-chloroimino-1-azacyclohexadienes of 4-substituted 2-(dichloroamino)-3,5,6-trifluoropyridines, 817–21
Synchronous skeletal rearrangement of D-nor-5α-androstane-16α- and -16β-carbonyl m-chlorobenzoyl peroxides, 943–6
Synthesis of heterocyclic compounds via enamines. Part 8. Acid-catalyzed transformations in 4,4,6-trimethyl-1,4-dihydropyrimidine-2(3H)-thione derivatives and related compounds, 1013–18
Base-catalyzed acyloin rearrangements: the first synthesis of 4-arylflavan-3-ones via chalcone epoxides, 1025–8
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 12. A study of cyclic iminocarbonates, 1124–31
Studies on tetrahydroisoquinolines. Part 15. Lead tetraacetate oxidation of four hydroxytetrahydroprotoberberines, (±)-govanine, (±)-discretine, (±)-corytencine, and (±)-10-hydroxy-2,3,11-trimethoxytetrahydroprotoberberine, 1169–75
Photochemical isomerization of 3H-1,2-diazepines to 4,6a-dihydro[1,2]diazeto[1,4-a]pyrroles, 1230–2
The preparation and dienone–phenol rearrangement of androsta-2,5-diene-4,17-dione, 1311–13
Photo-induced transformations. Part 44. Formation of lactams in the photolysis of some steroidal acetylhydrazones in the presence of oxygen, 1356–64
Base catalyzed rearrangements involving ylide intermediates. Part 1. The rearrangements of diallyl- and allylpropynylammonium cations, 1436–49
Base catalyzed rearrangements involving ylide intermediates. Part 2. The Stevens [1,2] and [3,2] sigmatropic rearrangements of allylic ammonium ylides, 1450–7
Base catalyzed rearrangements involving ylide intermediates. Part 3. A novel thermal [1,3]sigmatropic rearrangement, 1458–61
Base catalyzed rearrangements involving ylide intermediates. Part 4. [1,3]Sigmatropic rearrangements of 4-dimethylaminobutenes and [3,3]sigmatropic rearrangements of 3-dimethylaminohexa-1,5-dienes, 1462–72
Base catalyzed rearrangements involving ylide intermediates. Part 5. Thermal rearrangements of 3-dimethylaminohex-5-en-1-ynes, 1473–6
Base catalyzed rearrangements involving ylide intermediates. part 6. The rearrangements of diallyl- and allylpropynylammonium cations in protic media, 1477–86
The reactions of some tetrahydro-β-carbolines, of hexahydroazepino[3,4-b]indoles, and of tetrahydrocarbazolones with arenesulfonyl azides, 1512–15
Preparation and acid-catalyzed rearrangements of a steroidal 1,4-quinol, 1679–81
7-Alkylation and 7-sulfonylation of 5,6-dihydroimidazolo[2,1-b]thiazoles, 1773–8
Unsaturated steroids. Part 10. The mechanism of the anthrasteroid rearrangement: the conformation of anthrasteroids, 1779–81
o-Quinonoid compounds. Part 17. Evidence for exo-selectivity in the 1,5-sigmatropy of acyl and vinyl groups, 1909–15
Studies related to penicillins. Part 20. The mechanism of the rearrangement of methyl benzylpenicillinate to methyl benzylpenillonate, 2001–8
Derivatives of 3H-1,2,3-triazolo[4,5-d][1,3]thiazine, a new heterocyclic nucleus. Some shifts of a methylene group from a nitrogen to a sulfur atom, 2009–12
Base catalyzed rearrangements involving ylide intermediates. Part 7. The rearrangements of allyl(pentadienyl)- and propynyl(pentadienyl)-ammonium cations. The [5,4] sigmatropic rearrangement, 2033–48
Formation of 2,3-dihydro-4(1H)-quinolones and related compounds via Fries-type acid-catalyzed rearrangement of 1-arylazetidin-2-ones, 2105–11
Rearrangement of the lactone ring of gibberellin A_3 in aqueous alkali; participation of the ionized 3-hydroxy group in an anti S_N2' reaction, 2117–21
Photo-induced transformations. Part 50. The photo-Beckmann rearrangement of 3α,5-cyclo-5α-cholestan-7-one oxime, a βγ-cyclopropyl ketone oxime, 2268–71
Syntheses of 1- and 6-S- and 1- and 6-Se-derivatives of 2-amino-2-deoxy-α/β-D-glucopyranose, 2287–93
On the chemistry of β-lactamase inhibition by 6β-bromopenicillanic acid, 2322–9
Synthesis and some reactions of 3,4,5,6-tetrahydro-3,6-dimethyl-2,6-methano-3-benzazocin-1(2H)-one (2,5-dimethyl-8-oxo-6,7-benzomorphan), 2374–9
Synthesis and ring expansion of 4-(2-dimethylaminoethyl)-methylnaphthalen-1(4H)-one and its 2,3-dihydro derivative and some reactions of the lactam products, 2380–2
Carbonyl transposition and regio- and stereo-specific syntheses of new alcohols, aminoalcohols, and ketones in the monoterpenoid 1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane, 2626–30
Studies on heterocyclic chemistry. Part 21. Reactions of 3-mercapto- and 3-acylthio-3-isothiazoline-5-thiones: ring transformations, a base-induced ring cleavage, and thiol ester–thioxo ester rearrangements, 2693–9
Photochemistry of methoxy-substituted quinoline and isoquinoline N-oxides, 2738–42
N-Oxides and related compounds. Part 60. Novel thermal and photochemical rearrangements of N-substituted 2-pyridones, 2743–54
Synthesis of potentially basic hydrocarbons by sulfur extrusion and/or bis-Wittig reactions. Two syntheses of benz[5,6]indeno[2,1-a]phenalene and a new synthesis of dibenzo[de,mn]naphthacene (zethrene), 2812–17
Syntheses and reactions of spirocyclopropaneanthrones. Part 2. Rearrangements and cyclopropyl ring opening reactions of phenyl-substituted spirocyclopropaneanthrones and related compounds, 2835–41
α-(4,6-Diphenyl-2-oxo-1-pyridyl)benzyllithiums and their reactions with electrophiles, 2851–5
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
Synthetic studies towards complex diterpenoids. Part 13. Stereospecific synthesis of intermediates to the diterpene alkaloids and the C_{20}-gibberellins by a novel rearrangement of angularly fused cyclobutanones, 2881–6
RECEPTOR
Purines, pyrimidines and imidazoles. Part 53. Synthesis of some 5-halo analogs of metiamide and cimetidine, 2310–15
REDN
NADH model reaction. Importance of hydroxy groups in the asymmetric reduction of ethyl benzoylformate, 7–10
Mesoionic compounds. Part 10. A study of the reactions of 3-(3-pyridyl)sydnone with some nucleophilic reagents, 20–6
Metal-assisted reactions. Part 8. Selectivity in the reaction of organic halides with tetrahydroborate and the reduction of acyl halides to aldehydes, 27–30
Hydrocyclopropa[b]anthracene derivatives, 176–80
Photochemical reactions of amines on nitrophenazines. Part 2. Photoreduction versus photosubstitution, 191–6
Electrochemical reactions. Part 23. Intramolecular radical substitution during the reduction of 2-halo-N-methyl-N-naphthylbenzamides, 657–60
Synthetic studies toward complex diterpenoids. Part 11. Stereochemically defined synthesis of the racemates of 1,2,3,4,4a,9a-hexahydro-7-methoxy-1-methylfluorene-1-carboxylic acid, 804–8

REDN(contd)
Mechanism and stereochemistry of conjugate reduction of enones from gibberellins A_3 and A_7, 877–84
Reaction of protoberberine-type alkaloids. Part 13. Biogenetic conversion of protoberberine alkaloids into phthalideisoquinoline alkaloids, 919–26
Metal-catalyzed organic photoreactions. Evidence for the long-range electron-transfer mechanism in the uranyl- or iron(III)-catalyzed photoreactions of olefins, 947–9
Photochemical deoxygenation of an α-ketol: the dihydroflavonol-flavanone conversion, 1003–6
Electroorganic reactions. Part 16. The preparative-scale cathodic hydrogenolysis and coupling of benzyl-, allyl-, cinnamyl-, and polyenylphosphonium salts, 1154–60
Radical-initiated reduction of chloroformates to alkanes by tri-n-propylsilane. A method for removal of unwanted hydroxy-groups from organic molecules, 1207–11
A novel reduction of activated olefins by lithium amides, 1267–9
Polycyclic fluoroaromatic compounds. Part 9. Preparation and some reactions of decafluorofluoranthene, 1726–30
Reduction of ortho-quinones to dihydrodiols, 1920–3
Photosensitized oxidation of furans. Part 1. Synthesis and properties of furan endo-peroxides, 1955–9
Synthesis and reactions of 5-arylamino-1,2,4-trioxanes, 2300–3
Synthesis and some reactions of 3,4,5,6-tetrahydro-3,6-dimethyl-2,6-methano-3-benzazocin-1(2H)-one (2,5-dimethyl-8-oxo-6,7-benzomorphan), 2374–9
Utilization of sulfur-containing leaving groups. Part 2. Monitored reduction of carboxylic acids into alcohols or aldehydes via 3-acylthiazolidine-2thiones by sodium borohydride or diisobutylaluminum hydride, 2470–3
Heterocyclic polyfluoro compounds. Part 32. Photochemical reactions of 3-chlorotetrafluoro- and 3,5-dichlorotrifluoropyridines with olefins, and their photoreduction, 2520–2
Photoinduced reduction of fluoren-9-ol and its acetate by aliphatic amines, 2613–16
Carbonyl transposition and regio- and stereo-specific syntheses of new alcohols, aminoalcohols, and ketones in the monoterpenoid 1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane, 2626–30
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 14. A useful radical-deamination reaction, 2657–64
Photobromination of carbohydrate derivatives. Part 4. Observations on some glucopyranoside esters; a simple route to aryl α-L-idopyranosides, 2762–7
Studies on the preparation of N-alkyl-O-phenylhydroxylamines, 2781–6
REDOX
Alkaloid formation through N-oxide intermediates; regioselective synthesis of (±)-corytuberine by redox reaction, 629–32
Redox-photosensitized reactions. Part 6. Stereospecific ring cleavage of 1-phenoxy-1,2,2a,3,4,8b-hexahydrocyclobuta[a]naphthalene-8b-carbonitrile and its 2-methyl derivatives by redox-photosensitization, 2705–8
REDUCTIVE
The influence of chain-branching on the steric outcome of some olefin-forming reactions, 1045–50
Reaction of 1,2,4,5-tetroxan with antimony pentachloride or liquid sulfur dioxide: heterolytic fission of carbon–oxygen or oxygen–oxygen bonds, 1950–4
Competitive cyclizations of singlet and triplet nitrenes. Part 9. 2-(2-Nitrenophenyl)benzothiazoles and -benzimidazoles, 2387–91
REGIOSELECTIVE
Formylation and acylation reactions catalyzed by trifluoromethanesulfonic acid, 181–6
One-step synthesis of 5'-azido nucleosides, 306–10
Partial protection of carbohydrate derivatives. Part 4. Regioselective 2'-O-deacylation of fully acylated purine and pyrimidine ribonucleosides with hydroxylaminium acetate, 563–73
Benzodioxanes by oxidative phenol coupling. Synthesis of silybin, 775–8
Total synthesis of prostaglandin-$F_{2\alpha}$ involving stereocontrolled and photo-induced reactions of bicyclo[3.2.0]heptanones, 852–7
Coenzyme models. Part 23. Formation and reactivity of the stable 'quinone form' of flavin in cationic polymer matrixes, 1622–5
7-Alkylation and 7-sulfonylation of 5,6-dihydroimidazolo[2,1-b]thiazoles, 1773–8
'Le BOP' reagent and imidazole for selective O-acylation of trehalose, 1940–3
Regioselective nucleophilic addition of organolithium compounds to 3-(4,4-dimethyloxazolin-2-yl)pyridine, 2070–6
Organoiron complexes in organic synthesis. Part 6. Dienolonium equivalents: tricarbonyl-[1-alkoxy-2-(1-5-η-4-methoxycyclohexa-2,4-dienylium)ethane]iron hexafluorophosphates and related complexes leading to masked 4,4-disubstituted cyclohexenones, 2238–43
Synthetic applications of N–N linked heterocycles. Part 7. The preparation of 4-alkyl- and 4-aryl-pyridines by regiospecific attack of Grignard reagents γ to quaternary nitrogen in N-(2,6-dimethyl-4-oxopyridin-1-yl)pyridinium salts, 2480–4
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 15. The selective modification of neamine by radical-induced deamination, 2665–9
Organoiron complexes in organic synthesis. Part 7. Regio- and stereochemistry of ring connection reactions relevant to steroid and terpene synthesis. Structure of tricarbonyl(methyl 1-[2-5-η-4-methoxy-1-methylcyclohexa-2,4-dienyl]-3-hydroxymethyl-3-methyl-2-oxocyclohexanecarboxylate)iron, 2774–80
REGIOSELECTIVITY
Alkaloid formation through N-oxide intermediates; regioselective synthesis of (±)-corytuberine by redox reaction, 629–32
Selectivity in the hydrogenation of 6- and 8-substituted quinolines, 1933–9
Chain-extension reactions of acetylenes. Part 4. Reaction of 1,3-dilithioacetylides with carbonyl electrophiles, hexamethylphosphoric triamide, and benzylidenesaniline, 2338–45
Friedel–Crafts reactions of some vinylsilanes, 2485–9
Polycyclic fluoroaromatic compounds. Part 10. Nucleophilic replacement of fluorine in heptafluoro-2-naphthyllithium, 2494–6
Studies on steroids. Part 47. Neighboring group effects. Part 1. Effect of α-hydroxy and acetoxy groups on the ring opening of steroidal 4,5-epoxides, 2503–6
REGIOSPECIFIC
Studies related to penicillins and cephalosporins. Part 5. A new relay synthesis of penicillin, 11–13
Unusual regio- and stereochemistry in the reaction of methyl (E)- and (Z)-β-styryl sulfone with pyrrolidin-1-yl-4-tert-butylcyclohexene, 686–9
The preparation and reactions of 2-benzyloxy-4-benzylideneoxazol-5-one, 858–64
Reactions of halomethanes in the vapor phase. Part 4. The reactions of imidazoles with chloroform at 500°C, and a comparison with their liquid-phase reactions with trichloroacetate ion or hexachloroacetone and base, 1427–30
Photobromination of carbohydrate derivatives. Part 2. Penta-O-acetyl-β-D-glucopyranose; the 5-bromo derivative and products of further bromination, 1523–7
Intramolecular alkylation of phenols. Part 5. A regiospecific anionic ring closure of phenols via quinone methides, 1567–77
Regio- and stereospecific synthesis in threo-3-amino-2-hydroxy acids, novel amino acids contained in aminopeptidase inhibitors of microbial origin, 1618–21
Formation of allyl and cyclopropylcarbinyl sulfides in the regiospecific reactions of arenesulfenyl chlorides with allyl- and but-3-enylcobaloximes, 2021–5
1,3,4,5-Tetrahydrobenz[cd]indoles and related compounds. Part IV. Experiments towards the synthesis of the ergot alkaloids and related structures. Part 2. New alkylations on α-carbon and nitrogen in α-amido ketones, 2126–33
C-Nucleoside studies. Part 10. A new synthesis of 3-(2,3,5-tri-O-benzyl-β-D-ribofuranosyl)pyrazole and its conversion into 4-nitro-3(5)-β-D-ribofuranosylpyrazole, 2567–71
REGIOSPECIFICITY
Reaction of protoberberine-type alkaloids. Part 12. A facile method for regiospecific oxygenation and excited oxidative ring-cleavage of berberine alkaloids, 911–18
Adducts from quinones and diazoalkanes. Part 9. The adduct from 2-methyl-1,4-naphthoquinone and diazoethane and the derived secondary carbanion: regioisomerism in carbanion–quinone additions, 1994–2000
RELAY
Studies related to penicillins and cephalosporins. Part 5. A new relay synthesis of penicillin, 11–13
REMOVAL
Oxidation of ketone and aldehyde hydrazones, oximes and semicarbazones, and of hydroxylamines, and hydrazo-compounds, using benzeneseleninic anhydride, 1212–17

REMOVAL(contd)
Removal of thioacetal protecting groups by benzeneseleninic anhydride, 1654–7
RESIN
Polymer-supported phosphonates. Olefins from aldehydes, ketones, and dioxolanes by means of polymer-supported phosphonates, 2516–19
RESOLN
Restricted rotation about the carbon–nitrogen single bond of 1-aryl-4,6-dimethylpyrimidin-2(1H)-ones and the corresponding thiones, 1599–602
RESORCINOL
A new route to 5-substituted resorcinols and related systems, 170–5
RESORCYLATE
Convenient syntheses of alkyl β-resorcylate derivatives, 2272–7
RETICULINE
Alkaloid formation through N-oxide intermediates; regioselective synthesis of (±)-corytuberine by redox reaction, 629–32
RETRO
Synthesis of 2,4-diazabicyclo[3.3.0]octane-3,7-diones and 3-thioxo-2,4-diazabicyclo[3.3.0]octan-7-one by an intramolecular Michael-type reaction. Stability of 2,4-diaza-, 4-oxa-2-aza-, and 4-thia-2-aza-bicyclo[3.3.0]octane-3,7-diones, 2497–502
RHIZOPUS
Microbiological hydroxylation. Part 23. Hydroxylations of fluoro-5α-androstanones by the fungi Calonectria decora, Rhizopus nigricans, and Aspergillus ochraceus, 750–5
RHODIUM
The allyl ether as a protecting group in carbohydrate chemistry. Part 11. The 3-methylbut-2-enyl ('prenyl') group, 738–40
Meso-substitution reactions of rhodium(III)-octaethylporphyrins with organolithium reagents, 1641–5
RIBALINE
Quinoline alkaloids. Part 20. Synthesis of ptelefolone and O-methylribaline. Ring closure of epoxides of 3-prenylquinolones, 2294–9
RIBOFLAVIN
Coenzyme models. Part 23. Formation and reactivity of the stable 'quinone form' of flavin in cationic polymer matrixes, 1622–5
Specific enzyme inhibitors in vitamin biosynthesis. Part 3. The synthesis and inhibitory properties of some substrates and transition state analogs of riboflavin synthase, 2645–56
RIBOFURANOSYL
The synthesis of thieno[2,3-d]pyrimidine nucleosides related to the naturally occurring nucleosides cytidine and uridine, 1853–8
C-Nucleoside studies. Part 9. Synthesis of 3(5)-α-D-ribofuranosylpyrazole and related compounds, 2561–6
C-Nucleoside studies. Part 10. A new synthesis of 3-(2,3,5-tri-O-benzyl-β-D-ribofuranosyl)pyrazole and its conversion into 4-nitro-3(5)-β-D-ribofuranosylpyrazole, 2567–71
RIBOFURANOSYLPYRAZOLE
C-Nucleoside studies. Part 9. Synthesis of 3(5)-α-D-ribofuranosylpyrazole and related compounds, 2561–6
C-Nucleoside studies. Part 10. A new synthesis of 3-(2,3,5-tri-O-benzyl-β-D-ribofuranosyl)pyrazole and its conversion into 4-nitro-3(5)-β-D-ribofuranosylpyrazole, 2567–71
RIBOHEXOPYRANOSIDE
Branched-chain sugars. Part 8. The synthesis of C-acetylpyranosides and a pillarose derivative using 1-methoxyvinyllithium, 273–6
RIBONUCLEOSIDE
Partial protection of carbohydrate derivatives. Part 4. Regioselective 2'-O-deacylation of fully acylated purine and pyrimidine ribonucleosides with hydroxylaminium acetate, 563–73
Methylation study of ribonucleosides, deoxyribonucleosides, and 2'-O-methylribonucleosides with trimethylsulfonium hydroxide and trimethylsulfonium iodide. Influence of the 2'-hydroxy-groups on the reactivity of the base moieties of ribonucleosides, 2787–92
RIBOTIDE
Purines, pyrimidines, and imidazoles. Part 54. Interconversion of some intermediates in the de novo biosynthesis of purine nucleotides, 2316–21
RIBULOSE
The photochemistry of ketones derived from carbohydrates. Part 8. Type I cleavage of 1,2:4,5-di-O-isopropylidene-β-D-erythro-2,3-hexodiulose-2,6-pyranose: a synthesis of D-ribulose from D-fructose, 277–81
RING
Further total syntheses of chlorine-containing lichen xanthones, 85–9
Diazaindenes (azaindoles). Part 7. Formation of imidazo[1,2-a]pyridinium-8-carboxylate in an attempt to prepare pyrrolo[2,3-b]pyridin-3-one, 132–5
The chemistry of 4-mercaptoazetidin-2-ones. Part 1. Preparation and properties of (3R,4R)-4-mercapto-3-phenoxyacetamidoazetidin-2-one, 146–9
Hydrocyclopropa[b]anthracene derivatives, 176–80
Synthesis of tert-butyl 2-(2-methoxycarbonyl-1-methylethylidene-)penam-3-carboxylates; clavulanic acid analogs, 187–90
The photochemistry of ketones derived from carbohydrates. Part 8. Type I cleavage of 1,2:4,5-di-O-isopropylidene-β-D-erythro-2,3-hexodiulose-2,6-pyranose: a synthesis of D-ribulose from D-fructose, 277–81
Selective hydrogenation of 4,5-dihydro-1,3-oxazin-6-ones to carboxaldehyde derivatives; chemical differentiation between acylazetidin-2-ones and the corresponding isomeric oxazin-6-ones, 378–80
Studies related to penicillins. Part 19. Alkylations of (3R-3-((1S,5R)-3-benzyl-7-oxo-4-oxa-2,6-diazabicyclo[3.2.0]hept-2-en-6-yl)-4,4-dimethylthietan-2-one, 388–94
Adamantane chemistry. Part 3. Abnormal hypoiodite reactions of 2-substituted adamantan-2-ols; synthetic routes to 4-oxahomo- and 2-oxaadamantanes, and 7-substituted-bicyclo[3.3.1]nonan-3-ols, 410–18
Synthetic approach to (±)-vincamine via cleavage of an α-diketone monothioacetal. Alternative synthesis of (±)-eburnamine, (±)-isoeburnamine, and (±)-eburnamenine, 457–61
Ring opening or rearrangement versus N-oxidation in the action of peracids upon pyrrolo[2,3-b]pyridines, pyrrolo[2,3-b]pyrazines, and triazolo[1,5-a-]- and triazolo[4,3-a]pyrazine. Some chemical and spectroscopic properties of the triazolopyrazines and their N-oxides, 506–11
Transformations involving the pyrrolidine ring of nicotine, 579–85
Total syntheses of the meta,meta-bridged biphenyls (±)-myricanol and myricanone, and of an isomeric biphenyl ether, a 14-oxa[7,1]metaparacyclophane, 623–8
Electrochemical reactions. Part 23. Intramolecular radical substitution during the reduction of 2-halo-N-methyl-N-naphthylbenzamides, 657–60
Epoxy ring opening reactions of endo- and exo-3,4-epoxy-6-azabicyclo[3.2.0]heptan-7-ones, 690–2
2-Imidazolines. Part 2. Pyrolysis of 1-acyl-4,5-diamino-4,5-dihydroimidazoles: a novel pyrimidine synthesis, 722–7
Diisophorone and related compounds. Part 5. 2,7-Epoxydiisophoranes: oxirane cleavage by perchloric acid, 733–7
A simple and efficient total synthesis of the sesquiterpenes cuparene and iso-α-curcumene, from furan derivatives, 759–61
Stereospecific transformations of steroidal 2,3-aziridines into substituted amino thiols and ring-A fused heterocycles, 766–74
Reaction of 1,3-dipoles with 3-pyrrolidino-2-benzopyran-1-one, 846–8
Total synthesis of prostaglandin-$F_{2\alpha}$ involving stereocontrolled and photo-induced reactions of bicyclo[3.2.0]heptanones, 852–7
The preparation and reactions of 2-benzyloxy-4-benzylideneoxazol-5-one, 858–64
Reaction of protoberberine-type alkaloids. Part 12. A facile method for regiospecific oxygenation and excited oxidative ring-cleavage of berberine alkaloids, 911–18
Base-catalyzed acyloin rearrangements: the first synthesis of 4-arylflavan-3-ones via chalcone epoxides, 1025–8
Condensed isothiazoles. Part 5. Thieno[2,3-d]isothiazoles and thien[3,2-d]isothiazoles, 1029–37
Synthesis of 5,6-dihydro-4H-1,3,5-dithiazines, 2,3-dihydro-6-thioxo-6H-1,3-thiazine, and 6-amino-1,3-dithiins, 1038–44
Reaction of monothio derivatives of 2-heteroarylideneindene-1,3(2H)-diones with quinones, 1070–5
Reaction of benzo[c]cinnolinium-5-(N-acyl- and N-benzimidoimides) with diphenylcyclopropenone, 1147–9
The chemistry of o-phenylene di-isoothiocyanate. Part 1. Some reactions with N-nucleophiles, 1240–4
Ring-expansion of carbocyclic β-ketoesters with acetylenic esters, 1245–50
Reactions of the sodium salts of some heterocyclic β-ketoesters with dimethyl acetylenedicarboxylate, 1251–6
Ring opening reactions. Part 16. Ring opening of (2,5-dimethoxy-3-thienyl)lithium and some related compounds, 1390–2
Reactions of halomethanes in the vapor phase. Part 4. The reactions of imidazoles with chloroform at 500°C, and a comparison with

RING(contd)
their liquid–phase reactions with trichloroacetate ion or hexachloroacetone and base, 1427–30
Base catalyzed rearrangements involving ylide intermediates. part 6. The rearrangements of diallyl– and allylpropynylammonium cations in protic media, 1477–86
Intramolecular alkylation of phenols. Part 4. Base–catalyzed cyclization of phenolic enones. Scope and limitations, 1555–66
Intramolecular alkylation of phenols. Part 5. A regiospecific anionic ring closure of phenols via quinone methides, 1567–77
Photolytic conversion of some bicyclo[3.2.0]heptanones into 3–hydroxy– or 3–methoxy–2–oxabicyclo[3.3.0]octan–2–ones, 1583–6
Regio– and stereospecific synthesis in threo–3–amino–2–hydroxy acids, novel amino acids contained in aminopeptidase inhibitors of microbial origin, 1618–21
The synthesis of 1H– and 5H–thieno[1,2]diazepines by the electrocyclization of α–(2–alkenylthienyl)diazoalkanes, and some observations on their photochemical reactivity and ring inversion 1718–23
Cyclobutane ring opening of pin–2(10)–ene with mercury(II) salts. A new, high–yield synthesis of p–mentha–1,8–dien–7–ol, 1747–51
7–Alkylation and 7–sulfonylation of 5,6–dihydroimidazolo[2,1–b]thiazoles, 1773–8
The bacterial pigment from Pseudomonas lemonnieri. Part 2. The synthesis of 3–n–octanamidopyridine–2,5,6–trione: the structure and synthesis of lemonnierin, 1788–95
Synthesis of 3–hydroxy–2,3,4,5–tetrahydro–3–methyl[1]benzoxepins by ring–closure of isoprenyl terminal epoxides, 1820–5
Preparation of 3–imino–2–en–1–ones from 2–aralkylisoxazolium salts, 1866–9
Heterocycles in organic synthesis. Part 40. Oxidation of 2,4,6–triarylpyridinium betaines and 2,4,6–triarylpyridinium perchlorates by hydrogen peroxide, 1870–8
Steroids. Part 2. C–C bond cleavage of α–azido–steroidal ketones, 1916–19
Adducts from quinones and diazoalkanes. Part 9. The adduct from 2–methyl–1,4–naphthoquinone and diazoethane and the derived secondary carbanion: regioisomerism in carbanion–quinone additions, 1994–2000
Studies related to penicillins. Part 20. The mechanism of the rearrangement of methyl benzylpenicillinate to methyl benzylpenillonate, 2001–8
Reactions between 3–nitrochromone and diazo alkanes; Michael additions catalyzed by diazo alkanes as nitrogen bases, 2049–53
Branched–chain sugars. Part 11. An approach to the synthesis of D–evernitrose via the addition of iodine azide to a C–methylene sugar, 2061–4
Preparation and hydrolysis of some 4–substituted bicyclo[3.1.0]hex–2–ene–6–carboxaldehydes: synthesis of the prostaglandin A_2 analog possessing a butyl group in place of the octenol side chain 2088–92
Synthesis and ring expansion of 4–(2–dimethylaminoethyl)–4–methylnaphthalen–1(4H)–one and its 2,3–dihydro derivative and some reactions of the lactam products, 2380–2
The chemistry of fungi. Part 76. The synthesis and transformations of three stereoisomeric 2–(2,6–dimethoxybenzoyl)–3–methoxycarbonyl–7–oxabicyclo[2.2.1]heptanes, 2435–44
Studies on steroids. Part 47. Neighboring group effects. Part 1. Effect of α–hydroxy and acetoxy groups on the ring opening of steroidal 4,5–epoxides, 2503–6
Studies on heterocyclic chemistry. Part 21. Reactions of 3–mercapto– and 3–acylthio–3–isothiazoline–5–thiones: ring transformations, a base–induced ring cleavage, and thiol ester–thioxo ester rearrangements, 2693–9
Redox–photosensitized reactions. Part 6. Stereospecific ring cleavage of 1–phenoxy–1,2,2a,3,4,8b–hexahydrocyclobuta[a]naphthalene–8b–carbonitrile and its 2–methyl derivatives by redox–photosensitization, 2705–8
Polyhaloaromatic compounds. Part 44. Reactions of enamines with polyhalopyridines and their N–oxides, 2709–16
Novel conversions of benzo[b]thiophen–3(2H)–ones into 1,2–benzisothiazole and tetrahydro–1,2–benzothiazepin–5–one systems via sulfimide intermediates, 2830–4
Syntheses and reactions of spirocyclopropaneanthrones. Part 2. Rearrangements and cyclopropyl ring opening reactions of phenyl–substituted spirocyclopropaneanthrones and related compounds, 2835–41
Singlet oxygen photooxidation of some triazapentalenes, 2904–8
Reaction of ozonides with methanol in the presence of chlorosulfonic acid: selective cleavage of the carbon–oxygen bond of the peroxide bridge, 2909–13
Steric effects in the ring expansion of coumarins by 2–diazopropane and tert–butyldiazomethane, 2937–42
ROBINSON
Hydrocyclopropa[b]anthracene derivatives, 176–80
ROTAMER
Restricted rotation about the carbon–nitrogen single bond of 1–aryl–4,6–dimethylpyrimidin–2(1H)–ones and the corresponding thiones, 1599–602
ROTATION
Restricted rotation about the carbon–nitrogen single bond of 1–aryl–4,6–dimethylpyrimidin–2(1H)–ones and the corresponding thiones, 1599–602
Spirans. Part 13. The synthesis and orientation of spirans related to Abel's ketone (naphtho[2,1–b]furan–2(1H)–spiro–1'(2'H)–naphthalen–2'–one), 1986–93
ROTATIONAL
Restricted rotation about the carbon–nitrogen single bond of 1–aryl–4,6–dimethylpyrimidin–2(1H)–ones and the corresponding thiones, 1599–602
ROTENOID
Synthesis of the pyranoisoflavonoid, heminitidulan. Isoflavanoid and rotenoid glycosides from the bark of Dalbergia nitidula Welw. ex Bak, 2463–9
SAFETY
The reactions of some tetrahydro–β–carbolines, of hexahydroazepino[3,4–b]indoles, and of tetrahydrocarbazolones with arenesulfonyl azides, 1512–15
Sulfur nitrides in organic chemistry. Part 8. Reaction of tetrasulfur tetranitride with Grignard reagents and organolithium compounds, 2417–21
Synthesis and reactions of 1,6–diaryl–2,5–bis(diazo)–1,3,4,6–tetraoxohexanes, 2670–7
SALICYLALDEHYDE
Selective reactions between phenols and formaldehyde. A novel route to salicylaldehydes, 1862–5
SALT
Methods for the construction of linear 1,7–diarylheptanoids; synthesis of di–O–methylcentrolobol and precursors (synthetic and biosynthetic) to the meta,meta–bridged biphenyls myricanol and myricanone, 614–22
Base catalyzed rearrangements involving ylide intermediates. Part 2. The Stevens [1,2] and [3,2] sigmatropic rearrangements of allylic ammonium ylides, 1450–7
Intramolecular alkylation of phenols. Part 5. A regiospecific anionic ring closure of phenols via quinone methides, 1567–77
Cyclobutane ring opening of pin–2(10)–ene with mercury(II) salts. A new, high–yield synthesis of p–mentha–1,8–dien–7–ol, 1747–51
Synthetic applications of N–N linked heterocycles. Part 8. Regiospecific synthesis of 4–(α–acylalkyl) pyridines by attack of lithium enolates of ketones γ to N–(2,6–dimethyl–4–oxopyridin–1–yl)pyridinium salts, 2458–62
Synthetic applications of N–N linked heterocycles. Part 7. The preparation of 4–alkyl– and 4–aryl–pyridines by regiospecific attack of Grignard reagents γ to quaternary nitrogen in N–(2,6–dimethyl–4–oxopyridin–1–yl)pyridinium salts, 2480–4
SATD
Addition reactions of heterocyclic compounds. Part 72. Dimethyl acetylenedicarboxylate with 1,2,6,7,8,9–hexahydropyrrolo[3,2,1–jk]carbazole, 535–9
SCHIFF
Cycloaddition reactions of isonitrosoflavanone esters with Schiff bases and with heteroaromatic rings, 354–61
SCHMIDT
Synthesis and ring expansion of 4–(2–dimethylaminoethyl)–4–methylnaphthalen–1(4H)–one and its 2,3–dihydro derivative and some reactions of the lactam products, 2380–2
SCISSION
Hydrocyclopropa[b]anthracene derivatives, 176–80
Disproportionation in hydrolysis of pyrimido[4,5–b]quinoline–2(3H),4(10H)–diones (5–deazaflavins), 293–6
SCOULERINE
Alkaloid formation through N–oxide intermediates; regioselective synthesis of (±)–corytuberine by redox reaction, 629–32
SECOCHOLESTATRIENE
Calciferol and its relatives. Part 25. A chemical degradation of 3α–hydroxycholest–9(11)–ene to des–AB–cholestane derivatives.

SECOCHOLESTATRIENE(contd)
892–6
SELECTIVITY
Cyclization of polyenes. Part 32. Selective bromination of polyenes by 2,4,4,6-tetrabromocyclohexa-2,5-dienone, 1051–6
o-Quinonoid compounds. Part 17. Evidence for exo-selectivity in the 1,5-sigmatropy of acyl and vinyl groups, 1909–15
SELENINIC
Oxidation of ketone and aldehyde hydrazones, oximes and semicarbazones, and of hydroxylamines, and hydrazo-compounds, using benzeneseleninic anhydride, 1212–17
SELENIUM
Syntheses of 1- and 6-S- and 1- and 6-Se-derivatives of 2-amino-2-deoxy-α/β-D-glucopyranose, 2287–93
SELENOALKANOATE
Chemistry of O-alkyl selenoesters. Reaction with triethylphosphine 1627–34
SELENOBENZOATE
Chemistry of O-alkyl selenoesters. Reaction with triethylphosphine 1627–34
SELF
Base-catalyzed reactions of α-bromo-N-benzylpropionamide and -isobutyramide. Formation of 2-aminooxazolidinones, 2249–53
Reactions of alkyllithium compounds with aryl halides, 2617–25
SEMICARBAZONE
Oxidation of ketone and aldehyde hydrazones, oximes and semicarbazones, and of hydroxylamines, and hydrazo-compounds, using benzeneseleninic anhydride, 1212–17
SEPN
Cyclodepsipeptides from Beauveria bassiana. Part 3. The isolation of beauverolides Ba, Ca, Ja, and Ka, 2878–80
SESQUITERPENE
Fungal metabolites. Part 5. Uvidins, new drimane sesquiterpenes from Lactarius uvidus Fries, 221–6
Naturally occurring quinones. Part 27. Sesquiterpenoid quinones and related compounds from Hibiscus elatus: crystal structure of hibiscone C (gmelofuran), 249–56
Three new sesquiterpenoid metabolites of Botrytis cinerea, 741–3
A simple and efficient total synthesis of the sesquiterpenes cuparene and iso-α-curcumene, from furan derivatives, 759–61
Synthetic study on several eremophilane sesquiterpenes using a common intermediate, 963–77
Potential anticancer agents. Part 13. Cytotoxic constituents of Acanthospermum glabratum (Asteraceae), 1090–7
Electroorganic reactions. Part 16. The preparative-scale cathodic hydrogenolysis and coupling of benzyl-, allyl-, cinnamyl-, and polyenylphosphonium salts, 1154–60
Manicol, an aromatic sesquiterpene from Dulacia guianensis (Liriosma cf. acuta), 2065–9
Crystal structure and absolute configuration of a new sesquiterpenoid metabolite of Fomes annosus, 7α,8β,11-trihydroxydrimane, 2196–9
SIGMATROPIC
Base catalyzed rearrangements involving ylide intermediates. Part 1. The rearrangements of diallyl- and allylpropynylammonium cations, 1436–49
Base catalyzed rearrangements involving ylide intermediates. Part 2. The Stevens [1,2] and [3,2] sigmatropic rearrangements of allylic ammonium ylides, 1450–7
Base catalyzed rearrangements involving ylide intermediates. Part 3. A novel thermal [1,3]sigmatropic rearrangement, 1458–61
Base catalyzed rearrangements involving ylide intermediates. Part 4. [1,3]Sigmatropic rearrangements of 4-dimethylaminobutenes and [3,3]sigmatropic rearrangements of 3-dimethylaminohexa-1,5-dienes, 1462–72
Base catalyzed rearrangements involving ylide intermediates. Part 7. The rearrangements of allyl(pentadienyl)- and propynyl(pentadienyl)-ammonium cations. The [5,4] sigmatropic rearrangement, 2033–48
SIGMATROPY
o-Quinonoid compounds. Part 17. Evidence for exo-selectivity in the 1,5-sigmatropy of acyl and vinyl groups, 1909–15
SILANE
Friedel–Crafts reactions of some vinylsilanes, 2485–9
SILVER
Product formation and identification in the reaction of 6-endo-hydroxy-5-exo-iodo-3-exo-phenylnorborn-2-endo-ylcarboxylic acid γ-lactone with silver toluene-p-sulfonate, 1578–82
SILYBIN
Benzodioxanes by oxidative phenol coupling. Synthesis of silybin, 775–8
SILYL
β-Silylcarbonyl compounds as masked enones, 1493–8
SINGLET
Competitive cyclizations of singlet and triplet nitrenes. Part 8. The 1-(2-nitrenophenyl)pyrazoles and related systems, 982–94
SIRODESMIN
Sirodesmin PL biosynthesis in Phoma lingam Tode, 1739–46
SKELETAL
Synchronous skeletal rearrangement of D-nor-5α-androstane-16α- and -16β-carbonyl m-chlorobenzoyl peroxides, 943–6
SODIOMALONATE
Organoiron complexes in organic synthesis. Part 6. Dienolonium equivalents: tricarbonyl-[1-alkoxy-2-(1-5-η-4-methoxycyclohexa-2,4-dienylium)ethane]iron hexafluorophosphates and related complexes leading to masked 4,4-disubstituted cyclohexenones, 2238–43
Convenient syntheses of alkyl β-resorcylate derivatives, 2272–7
SODIOMALONITRILE
Organoiron complexes in organic synthesis. Part 6. Dienolonium equivalents: tricarbonyl-[1-alkoxy-2-(1-5-η-4-methoxycyclohexa-2,4-dienylium)ethane]iron hexafluorophosphates and related complexes leading to masked 4,4-disubstituted cyclohexenones, 2238–43
SOLVENT
Further conversions of naphthoquinones into dinaphthofuranquinones, 90–2
Photochemical reactions of benzene derivatives with electron-donor ethylenes, 1218–24
Selectivity in the hydrogenation of 6- and 8-substituted quinolines, 1933–9
A tautomerizable macrocyclic compound containing two aza-bridged 2,2'-bipyridine moieties, 2527–30
Photochemistry of methoxy-substituted quinoline and isoquinoline N-oxides, 2738–42
The reactions of four derivatives of pyrrolo[1,2-a]indole with arenesulfonyl azides, 2870–7
The chemistry of nitrilium salts. Part 1. Acylation of phenols and phenol ethers with nitriles and trifluoromethanesulfonic acid, 2894–900
SOLVOLYSIS
The solvolysis of 4β-hydroxy-3β-p-tolylsulfonyloxyandrost-5-enes, 933–7
SPECTRA
Chiroptical studies. Part 96. Short wavelength (190 nm) circular dichroism of ketones, 787–803
Partial synthesis of gibberellin A_9 and [3α- and 3β-$^2H_1$]gibberellin A_9; gibberellin A_5 and [1β3-$^2H_2$ and -$^3H_2$] gibberellin A_5; and gibberellin A_{20} and [1β,3α-$^2H_2$ and -$^3H_2$]gibberellin A_{20}, 885–91
SPIRO
Organoiron complexes in organic synthesis. Part 5. Spirocyclization reactions of tricarbonylcyclohexadienyliumiron complexes, 400–5
The reactions of some tetrahydro-β-carbolines, of hexahydroazepino[3,4-b]indoles, and of tetrahydrocarbazolones with arenesulfonyl azides, 1512–15
SPIROAZIRIDINEHEXOPYRANOSIDE
Branched-chain sugars. Part 11. An approach to the synthesis of D-evernitrose via the addition of iodine azide to a C-methylene sugar, 2061–4
SPIROCYCLIZATION
Organoiron complexes in organic synthesis. Part 5. Spirocyclization reactions of tricarbonylcyclohexadienyliumiron complexes, 400–5
SPIROCYCLOPROPANEANTHRONE
Syntheses and reactions of spirocyclopropaneanthrones. Part 2. Rearrangements and cyclopropyl ring opening reactions of phenyl-substituted spirocyclopropaneanthrones and related compounds, 2835–41
SPIRODITHIOLANONE
A new synthetic approach towards adriamycin, 643–7
SPIRONAPHTHALENONENAPHTHOFURAN
Spirans. Part 12. Stereochemical control in the oxidative cyclization of bisnaphthols, 1978–85
Spirans. Part 13. The synthesis and orientation of spirans related to Abel's ketone (naphtho[2,1-b]furan-2(1H)-spiro-1'(2'H)-naphthalen-2'-one), 1986–93
SQUARIC
Benzocyclobutenes. Part 5. Synthesis of 4-hydroxy-, 4,5-

SQUARIC(contd)
dihydroxy-, and 3,6-dihydroxy-benzocyclobutene-1,2-dione (benzologs of semisquaric and squaric acid), 1841–6
STABILITY
Pyranoside derivatives of 3-deoxyald-2-ulosonic acids, 1971–7
STEREOCHEM
Studies of enzyme-mediated reactions. Part 12. Stereochemical course of the decarboxylation of (2S)-tyrosine to tyramine by microbial, mammalian, and plant systems, 31–42
Studies of enzyme-mediated reactions. Part 13. Stereochemical course of the formation of histamine by decarboxylation of (2S)-histidine with enzymes from Clostridium welchii and Lactobacillus 30a, 43–51
Heterocyclic polyfluoro compounds. Part 29. 2:1 Adducts by photochemical addition of cycloalkenes to pentafluoropyridine, 129–31
1,3-Dipolar character of six-membered aromatic rings. Part 49. 3-Oxido-1-(4-pyridyl)pyridinium, 3-oxido-1-(2-pyridyl)pyridinium, 3-oxido-1-(quinoxolin-2-yl)pyridinium, 3-oxido-1-(5,6-diphenyl-1,2,4-triazin-3-yl)pyridinium, and 3-oxido-1-(5-phenyl-1,2,4-triazin-3-yl)pyridinium, 343–53
Transformations involving the pyrrolidine ring of nicotine, 579–85
Synthetic studies toward complex diterpenoids. Part 11. Stereochemically defined synthesis of the racemates of 1,2,3,4,4a,9a-hexahydro-7-methoxy-1-methylfluorene-1-carboxylic acid, 804–8
The photo-cycloaddition of enol ethers to benzene, 869–76
Regio- and stereo-selectivity of acetoxymercuration of acetylenes, 1098–103
Examination of the stereochemistry of hydrogenolysis of steroidal C-3 substituents using deuterium NMR spectroscopy, 1381–3
Stereochemical and mechanistic aspects of sulfoxide, epoxide, arene oxide, and phenol formation by photochemical oxygen atom transfer from azaaromatic N-oxides, 1693–9
Preparation and stereochemistry of some 1,1-disubstituted buta-1,3-dienes, 1756–60
S_N' reactions on some cyclopentene derivatives employing simple nucleophiles and organocuprate reagents, 1847–52
o-Quinonoid compounds. Part 17. Evidence for exo-selectivity in the 1,5-sigmatropy of acyl and vinyl groups, 1909–15
Spirans. Part 12. Stereochemical control in the oxidative cyclization of bisnaphthols, 1978–85
Stereochemistry of the hexosulose in cardenolide glycosides of the Asclepiadaceae, 2162–8
Polymeric proanthocyanidins. Stereochemistry, structural units, and molecular weight, 2278–86
Addition of thallium triacetate to $PGF_{2\alpha}$ methyl ester and related compounds in acetic acid. Nuclear magnetic resonance spectral study of novel dioxatricyclic and oxabicyclic products, 2572–80
Lithium ketene thioacetalides. Factors influencing α- versus γ-alkylation, 2678–82
STEREOELECTRONIC
Intramolecular alkylation of phenols. Part 4. Base-catalyzed cyclization of phenolic enones. Scope and limitations, 1555–66
STEREOSELECTIVE
Photocyclization of enamides. Part 15. Syntheses of the basic structures of corynoline and related alkaloids, 203–7
Total synthesis of substituted (±)-6,6-dimethyl-B-norestra-1,3,5(10)-trien-17β-ols and their 9β-isomers, 448–56
Total synthesis of prostaglandin-$F_{2\alpha}$ involving stereocontrolled and photo-induced reactions of bicyclo[3.2.0]heptanones, 852–7
The influence of chain-branching on the steric outcome of some olefin-forming reactions, 1045–50
Calciferol and its relatives. Part 28. A stereoselective synthesis of 1α-hydroxyprecalciferol$_3$ from (8-hydroxymethyl)des-AB-cholest-8-ene, 1405–6
Stereochemistry of Diels–Alder reactions of allenic sulfones; transfer of asymmetry from allenic to norbornene systems, 1646–9
Stable carbocations. Part 22. Stereochemistry of the deprotonation of ferrocenylalkylium ions, and of the protonation of alkenylferrocenes, 2213–17
STEREOSELECTIVITY
Stable carbocations. Part 22. Stereochemistry of the deprotonation of ferrocenylalkylium ions, and of the protonation of alkenylferrocenes, 2213–17
STEREOSPECIFIC
Epoxy ring opening reactions of endo- and exo-3,4-epoxy-6-azabicyclo[3.2.0]heptan-7-ones, 690–2
Stereospecific transformations of steroidal 2,3-aziridines into substituted amino thiols and ring-A fused heterocycles, 766–74
Photochemical deoxygenation of an α-ketol: the dihydroflavonol–flavanone conversion, 1003–6
Studies on tetrahydroisoquinolines. Part 14. A synthesis of 4-alkoxyaporphines, 1165–8
Regio- and stereospecific synthesis in threo-3-amino-2-hydroxy acids, novel amino acids contained in aminopeptidase inhibitors of microbial origin, 1618–21
Spirans. Part 13. The synthesis and orientatioon of spirans related to Abel's ketone (naphtho[2,1-b]furan-2(1H)-spiro-1'(2'H)-naphthalen-2'-one), 1986–93
Synthesis, absolute configuration, and circular dichroism of the enantiomers of fluorosuccinic acid, 2029–32
Studies related to penicillins and cephalosporins. Part 6. Synthesis of the (±)-dinorpenicillin-spirocyclopentane system, 2228–32
Synthetic studies on terpenoids. Part 24. Stereocontrolled synthesis of 3aβ-H,3bα-H,5aα-H,9aα-H,11aβ-H-9bβ-methylperhydrophenanthro[2,1-b]furan-7-one, an intermediate to epoxynorcafestanone, 2511–15
Carbonyl transposition and regio- and stereo-specific syntheses of new alcohols, aminoalcohols, and ketones in the monoterpenoid 1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane, 2626–30
Redox-photosensitized reactions. Part 6. Stereospecific ring cleavage of 1-phenoxy-1,2,2a,3,4,8b-hexahydrocyclobuta[a]naphthalene-8b-carbonitrile and its 2-methyl derivatives by redox-photosensitization, 2705–8
STEREOSPECIFICITY
Mechanism and stereochemistry of conjugate reduction of enones from gibberellins A_3 and A_7, 877–84
Synthetic studies towards complex diterpenoids. Part 13. Stereospecific synthesis of intermediates to the diterpene alkaloids and the C_{20}-gibberellins by a novel rearrangement of angularly fused cyclobutanones, 2881–6
STERIC
Spirans. Part 13. The synthesis and orientation of spirans related to Abel's ketone (naphtho[2,1-b]furan-2(1H)-spiro-1'(2'H)-naphthalen-2'-one), 1986–93
Adducts from quinones and diazoalkanes. Part 9. The adduct from 2-methyl-1,4-naphthoquinone and diazoethane and the derived secondary carbanion: regioisomerism in carbanion–quinone additions, 1994–2000
STERICALLY
The synthesis and reactions of sterically constrained pyrylium and pyridinium salts, 1895–900
STEROID
New steroidal heterocycles: the synthesis and structure of androsteno[2,3-g]-, androstano[3,2-f]-, and androsteno[16,17-g]pyrazolo[1,5-a]pyrimidines, 481–6
Acid-catalyzed dehydration of withanolide E, a 14α,17β,20αβ-trihydroxy steroid; a revision, 531–4
Ring C aromatic steroids. Part 2. Rearrangement of 16α,17α-epoxy- and 17α-hydroxy-5,7-dienes, 556–62
Chromyl halide oxidation of steroid alkenes, 639–42
Chiroptical studies. Part 96. Short wavelength (190 nm) circular dichroism of ketones, 787–803
The participation of 3,5-cyclosteroids in aromatization reactions, 1306–10
Photo-induced transformations. Part 44. Formation of lactams in the photolysis of some steroidal acetylhydrazones in the presence of oxygen, 1356–64
Examination of the stereochemistry of hydrogenolysis of steroidal C-3 substituents using deuterium NMR spectroscopy, 1381–3
Calciferol and its relatives. Part 27. A synthesis of 1α-hydroxyvitamin D_3 by way of 1α-hydroxytachysterol$_3$, 1400–4
Calciferol and its relatives. Part 28. A stereoselective synthesis of 1α-hydroxyprecalciferol$_3$ from (8-hydroxymethyl)des-AB-cholest-8-ene, 1405–6
Removal of thioacetal protecting groups by benzeneseleninic anhydride, 1654–7
Preparation and acid-catalyzed rearrangements of a steroidal 1,4-quinol, 1679–81
Oxidation of secondary allylic acetates with chromium(VI) reagents 1769–72
Steroids. Part 2. C–C bond cleavage of α-azido-steroidal ketones, 1916–19
Steroidal heterocycles: synthesis and structure of imidazo[2,1-b]thiazolo-, thiazolo[3,2-a]benzimidazolo-, and thiazolo[3,2-b]-s-triazolo-derivatives, 2146–51

STEROID(contd)
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 13. A novel synthesis of benzyl ethers, 2184–90
Synthesis and reactions of tert-butyltellurocarbonyloxy alkanes, 2191–5
Dehydrogenation of steroidal and triterpenoid ketones using benzeneseleninic anhydride, 2209–12
Studies on steroids. Part 47. Neighboring group effects. Part 1. Effect of α-hydroxy and acetoxy groups on the ring opening of steroidal 4,5-epoxides, 2503–6
Studies on steroids. Part 48. Neighboring group effects. Part 2. Effect of epoxide on the hydrolysis of adjacent acetate groups, 2507–10
Microbiological transformations. Part 3. The oxidation of androstene derivatives with the fungus Cunninghamella elegans, 2535–41
18-Substituted steroids. Part 5. Further studies on the synthesis of 11β,18,21-trihydroxypregn-4-ene-3,20-dione ('18-hydroxycorticosterone'), 2591–6
18-Substituted steroids. Part 6. Synthesis of 3α,18-dihydroxy-11β,18-epoxy-5β-pregnan-20-one(21-deoxy-3α,5β-tetrahydroaldosterone), 2597–607
Reactions of relevance to the chemistry of aminoglycoside antibiotics. Part 14. A useful radical-deamination reaction, 2657–64
Perulactone, a new ergostane-type steroid from Physalis peruviana (Solanaceae), 2700–4
STEROIDAL
Stereospecific transformations of steroidal 2,3-aziridines into substituted amino thiols and ring-A fused heterocycles, 766–74
New steroidal heterocycles: synthesis and structure of androst-2-eno[2,3-g](tetrazolo[1,5-a]pyrimidines), androst-4-eno[3,2-f](tetrazolo[1,5-a]pyrimidine), and androstano[17,16-f](tetrazolo[1,5-a]pyrimidines), 1019–24
Photo-induced transformations. Part 44. Formation of lactams in the photolysis of some steroidal acetylhydrazones in the presence of oxygen, 1356–64
The conversion of aldehydes and ketones via their 2,4,6-triisopropylbenzenesulfonyl hydrazones into nitriles containing one additional carbon atom, 1487–92
Unsaturated steroids. Part 10. The mechanism of the anthrasteroid rearrangement: the conformation of anthrasteroids, 1779–81
Chiroptical studies. Part 98. The short-wavelength circular dichroism of ketones in 2,2,2-trifluoroethanol, 1810–19
Steroidal heterocycles: synthesis and structure of imidazo[2,1-b]thiazolo-, thiazolo[3,2-a]benzimidazolo-, and thiazolo[3,2-b]-s-triazolo-derivatives, 2146–51
STEROIDOGENIC
Synthesis of 5- and 7-bromotryptophan and of [5-bromotryptophan⁹]-β-coritcotropin-(1–24)-tetracosapeptide, a highly potent corticotrophin analog, 1928–32
STEROL
Isolation and structural elucidation of a novel sterol metabolite of Fusarium sporotrichioides 921, 2914–17
STEVENS
Synthesis of potentially basic hydrocarbons by sulfur extrusion and/or bis-Wittig reactions. Two syntheses of benz[5,6]indeno[2,-1-a]phenalene and a new synthesis of dibenzo[de,mn]naphthacene (zethrene), 2812–17
STILBENE
Chemistry of O-alkyl selenoesters. Reaction with triethylphosphine 1627–34
STYRENE
Friedel-Crafts reactions of some vinylsilanes, 2485–9
STYRYL
Unusual regio- and stereochemistry in the reaction of methyl (E)- and (Z)-β-styryl sulfone with pyrrolidin-1-yl-4-tert-butylcyclohexene, 686–9
STYRYLSULFONE
Unusual regio- and stereochemistry in the reaction of methyl (E)- and (Z)-β-styryl sulfone with pyrrolidin-1-yl-4-tert-butylcyclohexene, 686–9
SUBINCANINE
The synthesis of 4-ethyl-3,3a,10,11,12,12a-hexahydro-12-methyl-2H-furo[3',2':5,6]pyrido[3,4-a]carbazol-2-yl methyl ketone. Structure of subincanine, 1290–3
SUBSTITUENT
Photochemical cyclization of phthalimide Mannich bases, 93–6
New aspects in the base-promoted cyclization of o-vinylbenzohydrazonyl chlorides, 116–18
Photocyclization of enamides. Part 14. Substituent effects in the photocyclization of N-α,β-unsaturated acylanilides, 197–202
Nitrogen bridgehead compounds. Part 6. Ring transformation. Part 3. Thermal cyclization of diethyl 2-(2-pyridylaminomethylene)-succinates and -glutarates, 227–32
o-Quinonoid compounds. Part 16. 1,5-Shift of vinyl groups in 1,3-dimethylindenes; product studies and migratory aptitudes of substituted vinyl groups, 714–21
2-Imidazolines. Part 2. Pyrolysis of 1-acyl-4,5-diamino-4,5-dihydroimidazoles: a novel pyrimidine synthesis, 722–7
Pyrethroid photochemistry: mechanistic aspects in reactions of the (dihalovinyl)cyclopropanecarboxylate substituent, 728–32
Competitive cyclizations of singlet and triplet nitrenes. Part 8. The 1-(2-nitrenophenyl)pyrazoles and related systems, 982–94
Polyhaloaromatic compounds. Part 42. Carbon-13 NMR spectra of polyhalopyridines and pyrimidines, 1370–80
Base catalyzed rearrangements involving ylide intermediates. Part 3. A novel thermal [1,3]sigmatropic rearrangement, 1458–61
Base catalyzed rearrangements involving ylide intermediates. Part 4. [1,3]Sigmatropic rearrangements of 4-dimethylaminobutenes and [3,3]sigmatropic rearrangements of 3-dimethylaminohexa-1,5-dienes, 1462–72
The reaction of para-substituted β-aminocinnamonitriles with benzonitrile oxides, 1635–40
Selectivity in the hydrogenation of 6- and 8-substituted quinolines, 1933–9
Pyranoside derivatives of 3-deoxyald-2-ulosonic acids, 1971–7
Photochemistry of methoxy-substituted quinoline and isoquinoline N-oxides, 2738–42
Steric effects in the ring expansion of coumarins by 2-diazopropane and tert-butyldiazomethane, 2937–42
SUBSTITUTED
Selectivity in the hydrogenation of 6- and 8-substituted quinolines, 1933–9
SUBSTITUTION
Mesoionic compounds. Part 10. A study of the reactions of 3-(3-pyridyl)sydnone with some nucleophilic reagents, 20–6
Photochemical reactions of amines on nitrophenazines. Part 2. Photoreduction versus photosubstitution, 191–6
Lewis-acid-induced electrophilic substitution in indoles with acetone. Part 2, 553–5
Electrochemical reactions. Part 23. Intramolecular radical substitution during the reduction of 2-halo-N-methyl-N-naphthylbenzamides, 657–60
Heterocycles in organic synthesis. Part 42. Preparation of azides, phthalimides, and sulfonamides from primary amines, 849–50
Heterocyclic compounds with bridgehead nitrogen atoms. Part 7. The synthesis of pyrrolo[2,1,5-cd]indolizines ([2,2,3]cyclazines) and pyrazino[2,1,6-cd]cyclazines) (6-aza[2,2,3]cyclazines) from 3H-pyrrolizine, 1319–23
Heterocyclic compounds with bridgehead nitrogen atoms. Part 8. The synthesis and properties of cyclopenta[4,5]azepino[7,1,2-cd]pyrrolizine (cyclopenta[h][2.2.4]cyclazine), 1324–30
Heterocycles in organic synthesis. Part 13. The reaction of 2,4-diphenylthiopyrylium perchlorate with amines, 1345–6
Excited state substitution and addition reactions of aryl fluorides with aliphatic amines, 1393–9
Radical-nucleophilic substitution ($S_{RN}1$) reactions: preparation and reactions of α-nitrosulfides, 1407–13
Reactions involving fluoride ion. Part 20. Competition between isomerization and nucleophilic attack on a perfluoroalkene, 1551–4
Meso-substitution reactions of rhodium(III)-octaethylporphyrins with organolithium reagents, 1641–5
Polycyclic fluoroaromatic compounds. Part 9. Preparation and some reactions of decafluorofluoranthene, 1726–30
S_N' reactions on some cyclopentene derivatives employing simple nucleophiles and organocuprate reagents, 1847–52
The synthesis and reactions of sterically constrained pyrylium and pyridinium salts, 1895–900
Organoiron complexes in organic synthesis. Part 6. Dienolonium equivalents: tricarbonyl-[1-alkoxy-2-(1-5-η-4-methoxycyclohexa-2,4-dienylium)ethane]iron hexafluorophosphates and related complexes leading to masked 4,4-disubstituted cyclohexenones, 2238–43
Synthesis and reactions of azidobenzothiazoles and -benzo[b]thiophenes. Novel thiazolo[4,5-g]benzoxazoles and dihydrothieno[3,2-g]benzoxazoles, 2358–61

SUBSTITUTION(contd)
Pyrazolopyridines. Part 5. Preparation and reactions of pyrazolo[3,-4-c]pyridines, 2398–404
Evidence for the mechanism of formation of N-(1,2-dihydrobenzocyclobut-1-enyl)pyridinium bromides and acetophenones from bisdibromocyclopropane adducts, 2405–7
Sulfur nitrides in organic chemistry. Part 8. Reaction of tetrasulfur tetranitride with Grignard reagents and organolithium compounds, 2417–21
Synthetic applications of N–N linked heterocycles. Part 7. The preparation of 4-alkyl- and 4-aryl-pyridines by regiospecific attack of Grignard reagents γ to quaternary nitrogen in N-(2,6-dimethyl-4-oxopyridin-1-yl)pyridinium salts, 2480–4
Friedel–Crafts reactions of some vinylsilanes, 2485–9
Polycyclic fluoroaromatic compounds. Part 10. Nucleophilic replacement of fluorine in heptafluoro-2-naphthyllithium, 2494–6
Heterocyclic polyfluoro compounds. Part 32. Photochemical reactions of 3-chlorotetrafluoro- and 3,5-dichlorotrifluoropyridines with olefins, and their photoreduction, 2520–2
The photoreactions of pyridine and 2-fluoropyridine with aliphatic amines, 2531–4
18-Substituted steroids. Part 5. Further studies on the synthesis of 11β,18,21-trihydroxypregn-4-ene-3,20-dione ('18-hydroxycorticosterone'), 2591–6
Photobromination of carbohydrate derivatives. Part 5. Preparation and reactions of (5S)-1,2,3,4-tetra-O-acetyl-5-bromo-β-D-xylopyranose; a new type of 'double-headed' nucleoside, 2767–73
α-(4,6-Diphenyl-2-oxo-1-pyridyl)benzyllithiums and their reactions with electrophiles, 2851–5
Novel reagent system for converting a hydroxy-group into an iodo-group in carbohydrates with inversion of configuration. Part 2, 2866–9
SUCCINATE
Nitrogen bridgehead compounds. Part 6. Ring transformation. Part 3. Thermal cyclization of diethyl 2-(2-pyridylaminomethylene)succinates and -glutarates, 227–32
Synthesis, absolute configuration, and circular dichroism of the enantiomers of fluorosuccinic acid, 2029–32
SUGAR
Branched-chain sugars. Part 15. Synthesis of 1L-(1,2,3',4,5/3,6)-3-hydroxymethyl-4,5-O-isopropylidene-3,3'-O-methylene-6-nitro-2,3,4,5-tetrahydroxycyclohexenecarbaldehyde dimethyl acetal, a potential key compound for total synthesis of optically active tetrodotoxin, 14–19
Branched-chain sugars. Part 7. A route to sugars with two-carbon branches using 1-methoxyvinyllithium, 269–72
Branched-chain sugars. Part 8. The synthesis of C-acetylpyranosides and a pillarose derivative using 1-methoxyvinyllithium, 273–6
Synthesis of 3-(polyacetoxyalkyl)pyrroles from 3-aminocrotonic esters and open-chain sugar nitro olefins, 1199–205
Identification of variose as 2,6-dideoxy-3-O-methyl-D-ribo-hexose (D-cymarose), 1800–3
SULFENATE
Preparation and trapping of sulfenic acids, 237–9
SULFIDE
Radical-nucleophilic substitution ($S_{RN}1$) reactions: preparation and reactions of α-nitrosulfides, 1407–13
Formation of allyl and cyclopropylcarbinyl sulfides in the regiospecific reactions of arenesulfenyl chlorides with allyl- and but-3-enylcobaloximes, 2021–5
SULFIMIDE
The chemistry of o-phenylenediisothiocyanate. Part 3. Studies on the syntheses of heterocyclic compounds, 2608–11
SULFINIC
Sultone formation from 2,4,6-triisopropylbenzenesulfinic acid, 1076–9
SULFONAMIDE
Heterocycles in organic synthesis. Part 42. Preparation of azides, phthalimides, and sulfonamides from primary amines, 849–50
SULFONE
Reaction between 1,1-dilithioalkyl phenyl sulfones and ω-bromo esters. Synthesis of cyclic vinyl ethers, 260–3
Unusual regio- and stereochemistry in the reaction of methyl (E)- and (Z)-β-styryl sulfone with pyrrolidin-1-yl-4-tert-butylcyclohexene, 686–9
The influence of chain-branching on the steric outcome of some olefin-forming reactions, 1045–50
Stereochemistry of Diels–Alder reactions of allenic sulfones; transfer of asymmetry from allenic to norbornene systems, 1646–9
SULFONIMIDO
7-Alkylation and 7-sulfonylation of 5,6-dihydroimidazolo[2,1-b]thiazoles, 1773–8
SULFONIUM
Methylation study of ribonucleosides, deoxyribonucleosides, and 2'-O-methylribonucleosides with trimethylsulfonium hydroxide and trimethylsulfonium iodide. Influence of the 2'-hydroxy-groups on the reactivity of the base moieties of ribonucleosides, 2787–92
SULFONYL
The reactions of four derivatives of pyrrolo[1,2-a]indole with arenesulfonyl azides, 2870–7
SULFONYLATION
7-Alkylation and 7-sulfonylation of 5,6-dihydroimidazolo[2,1-b]thiazoles, 1773–8
SULFONYLTHIAZOLIUM
7-Alkylation and 7-sulfonylation of 5,6-dihydroimidazolo[2,1-b]thiazoles, 1773–8
SULFOQUINOVOSYL
Synthesis of 3-O-(6-deoxy-6-sulfo-α-D-glucopyranosyl)-1,2-di-O-hexadecanoyl-L-glycerol, sulfoquinovosyl diglyceride, 2490–3
SULFOXIMIDE
Homolytic reaction of N-halosulfoximides with olefins and toluene 1257–61
Michael additions to α,β-unsaturated sulfoximides in two-phase systems. Kinetic resolution by means of chiral phase-transfer catalysts, 2422–4
SULFUR
Ene-type reactions involving transfer of acyl groups. Addition of 4-phenyl-1,2,4-triazoline-3,5-dione to various unsaturated compounds, 843–5
Reaction of 1,2,4,5-tetroxan with antimony pentachloride or liquid sulfur dioxide: heterolytic fission of carbon–oxygen or oxygen–oxygen bonds, 1950–4
Syntheses of 1- and 6-S- and 1- and 6-Se-derivatives of 2-amino-2-deoxy-α/β-D-glucopyranose, 2287–93
SULFURATION
Formation of allyl and cyclopropylcarbinyl sulfides in the regiospecific reactions of arenesulfenyl chlorides with allyl- and but-3-enylcobaloximes, 2021–5
SULFURIC
Reactions of 4-bromo-4-(1-hydroxypropyl)-2,6-di-tert-butylcyclohexa-2,5-dienone in methanolic sulfuric acid, 1595–8
SULTONE
Sultone formation from 2,4,6-triisopropylbenzenesulfinic acid, 1076–9
SUPPORTED
Polymer-supported phosphonates. Olefins from aldehydes, ketones, and dioxolanes by means of polymer-supported phosphonates, 2516–19
SWIETENIA
Tetranortriterpenoids and related compounds. Part 24. The interrelation of swietenine and swietenolide, the major tetranortriterpenoids from the seeds of Swietenia macrophylla (Meliaceae), 529–30
SWIETENINE
Tetranortriterpenoids and related compounds. Part 24. The interrelation of swietenine and swietenolide, the major tetranortriterpenoids from the seeds of Swietenia macrophylla (Meliaceae), 529–30
SWIETENOLIDE
Tetranortriterpenoids and related compounds. Part 24. The interrelation of swietenine and swietenolide, the major tetranortriterpenoids from the seeds of Swietenia macrophylla (Meliaceae), 529–30
SYDNONE
Mesoionic compounds. Part 10. A study of the reactions of 3-(3-pyridyl)sydnone with some nucleophilic reagents, 20–6
SYNCHRONOUS
Synchronous skeletal rearrangement of D-nor-5α-androstane-16α- and -16β-carbonyl m-chlorobenzoyl peroxides, 943–6
SYNTHASE
Specific enzyme inhibitors in vitamin biosynthesis. Part 3. The synthesis and inhibitory properties of some substrates and transition state analogs of riboflavin synthase, 2645–56
SYNTHESIS
Studies related to penicillins and cephalosporins. Part 5. A new

SYNTHESIS(contd)
relay synthesis of penicillin, 11–13
Further total syntheses of chlorine-containing lichen xanthones, 85–9
Photocyclization of enamides. Part 17. Total synthesis of (±)-corynoline, (±)-12-hydroxycorynoline, and (±)-11-epicorynoline, 212–16
Total synthesis of substituted (±)-6,6-dimethyl-B-norestra-1,3,5(10)-trien-17β-ols and their 9β-isomers, 448–56
A new synthetic approach towards adriamycin, 643–7
A simple and efficient total synthesis of the sesquiterpenes cuparene and iso-α-curcumene, from furan derivatives, 759–61
Total synthesis of prostaglandin-$F_{2\alpha}$ involving stereocontrolled and photo-induced reactions of bicyclo[3.2.0]heptanones, 852–7
Applications of substituted arylacetaldehydes in the total synthesis of seco-mesembrane alkaloids. Part 1. The total synthesis of (±)-O-methyljoubertiamine, 906–10
Terpenoids. Part 8. Partial syntheses of ent-11β-, 12α-, and 12β-hydroxykaur-16-en-19-oic acids from grandiflorenic acid, 1270–8
Calciferol and its relatives. Part 27. A synthesis of 1α-hydroxyvitamin D_3 by way of 1α-hydroxytachysterol$_3$, 1400–4
Calciferol and its relatives. Part 28. A stereoselective synthesis of 1α-hydroxyprecalciferol$_3$ from (8-hydroxymethyl)des-AB-cholest-8-ene, 1405–6
Lanthionine chemistry. Part 5. Synthesis of cyclic nonsymmetrical lanthionyl peptides, 1965–70
Total synthesis of prostaglandin A_2 involving the reaction of a heterocuprate reagent with an allyl epoxide, 2084–7
Studies in the xanthone series. Part 13. Structural and synthetic studies on toxyloxanthone B, 2353–7
Synthesis of the pyranoisoflavonoid, heminitidulan. Isoflavanoid and rotenoid glycosides from the bark of Dalbergia nitidula Welw. ex Bak, 2463–9
Synthesis of 3-O-(6-deoxy-6-sulfo-α-D-glucopyranosyl)-1,2-di-O-hexadecanoyl-L-glycerol, sulfoquinovosyl diglyceride, 2490–3
C-Nucleoside studies. Part 10. A new synthesis of 3-(2,3,5-tri-O-benzyl-β-D-ribofuranosyl)pyrazole and its conversion into 4-nitro-3(5)-β-D-ribofuranosylpyrazole, 2567–71
18-Substituted steroids. Part 6. Synthesis of 3α,18-dihydroxy-11β,18-epoxy-5β-pregnan-20-one(21-deoxy-3α,5β-tetrahydroaldosterone), 2597–607
SYNTHON
Synthetic studies towards complex diterpenoids. Part 13. Stereospecific synthesis of intermediates to the diterpene alkaloids and the C_{20}-gibberellins by a novel rearrangement of angularly fused cyclobutanones, 2881–6
SYRIOBIOSIDE
Stereochemistry of the hexosulose in cardenolide glycosides of the Asclepiadaceae, 2162–8
SYRIOSIDE
Stereochemistry of the hexosulose in cardenolide glycosides of the Asclepiadaceae, 2162–8
TABERNAELEGANTININE
Tabernaelegantinines C and D, two new bisindole alkaloids containing a cyano group from Tabernaemontana elegans Stapf. Part 2, 601–6
TABERNAEMONTANA
Tabernaelegantinines C and D, two new bisindole alkaloids containing a cyano group from Tabernaemontana elegans Stapf. Part 2, 601–6
TAUTOMER
Structural investigations of 3-acylpyrrolidine-2,4-diones by nuclear magnetic resonance spectroscopy and x-ray crystallography, 1057–65
TAUTOMERISM
Diazaindenes (azaindoles). Part 7. Formation of imidazo[1,2-a]pyridinium-8-carboxylate in an attempt to prepare pyrrolo[2,3-b]pyridin-3-one, 132–5
A tautomerizable macrocyclic compound containing two aza-bridged 2,2'-bipyridine moieties, 2527–30
TELLURATION
Synthesis and reactions of tert-butyltellurocarbonyloxy alkanes, 2191–5
TELLURIDE
Mechanism of thermal decomposition of tetra-aryltellurium species 1338–44
TELLUROESTER
Synthesis and reactions of tert-butyltellurocarbonyloxy alkanes, 2191–5
TERMINAL
Synthesis of 3-hydroxy-2,3,4,5-tetrahydro-3-methyl[1]benzoxepins by ring-closure of isoprenyl terminal epoxides, 1820–5
TERPENE
A study of the reaction between the dichloromethylphosphine–aluminum chloride complex and terpenes. Part 2. Reaction of the dichloromethylphosphine–aluminum chloride complex and camphene, and an x-ray crystallographic study of the products, 2136–40
TERPENOID
Synthetic studies on terpenoids. Part 24. Stereocontrolled synthesis of 3aβ-H,3bα-H,5aα-H,9aα-H,11aβ-H-9bβ-methylperhydrophenanthro[2,1-b]furan-7-one, an intermediate to epoxynorcafestanone, 2511–15
Carbonyl transposition and regio- and stereo-specific syntheses of new alcohols, aminoalcohols, and ketones in the monoterpenoid 1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane, 2626–30
TESSARIC
Further synthetic investigations in the eremophilane sesquiterpene group. Synthesis of (±)-isovalencenic acid, (±)-isovalencenol, and their (Z)-isomers, and experiments directed towards the synthesis of tessaric acid, 1752–5
TETRAACETATE
Oxidation of enamine esters with lead tetraacetate. Part 1. Products from some N-alkylaminofumarates, 156–62
TETRAACETYL
Syntheses of 1- and 6-S- and 1- and 6-Se-derivatives of 2-amino-2-deoxy-α/β-D-glucopyranose, 2287–93
Photobromination of carbohydrate derivatives. Part 5. Preparation and reactions of (5S)-1,2,3,4-tetra-O-acetyl-5-bromo-β-D-xylopyranose; a new type of 'double-headed' nucleoside, 2767–73
TETRAACETYLBROMOXYLOPYRANOSE
Photobromination of carbohydrate derivatives. Part 5. Preparation and reactions of (5S)-1,2,3,4-tetra-O-acetyl-5-bromo-β-D-xylopyranose; a new type of 'double-headed' nucleoside, 2767–73
TETRAACETYLGLUCOSAMINE
Syntheses of 1- and 6-S- and 1- and 6-Se-derivatives of 2-amino-2-deoxy-α/β-D-glucopyranose, 2287–93
TETRAACETYLXYLOPYRANOSE
Photobromination of carbohydrate derivatives. Part 5. Preparation and reactions of (5S)-1,2,3,4-tetra-O-acetyl-5-bromo-β-D-xylopyranose; a new type of 'double-headed' nucleoside, 2767–73
TETRAARYL
Mechanism of thermal decomposition of tetra-aryltellurium species 1338–44
TETRAARYLTELLURIDE
Mechanism of thermal decomposition of tetra-aryltellurium species 1338–44
TETRAAZASPIRODECADIENECARBOXYLATE
New heterospiro-ring systems by condensation of some heterocyclic o-dicarboxylates with 1,3-diphenylguanidine, 1667–70
TETRABENZODIAZACYCLODODECINE
2,2'-Bridged biphenyls with 12-membered heterocyclic bridging rings. Part 1. Tetrabenzo[b,d,h,j][1,6]diazacyclododecines, 107–12
TETRABENZOYLBROMOGLUCONOLACTONE
Photobromination of carbohydrate derivatives. Part 4. Observations on some glucopyranoside esters; a simple route to aryl α-L-idopyranosides, 2762–7
TETRABENZOYLGLUCOPYRANOSIDE
Photobromination of carbohydrate derivatives. Part 4. Observations on some glucopyranoside esters; a simple route to aryl α-L-idopyranosides, 2762–7
TETRABROMOCYCLOHEXA
Cyclization of polyenes. Part 32. Selective bromination of polyenes by 2,4,4,6-tetrabromocyclohexa-2,5-dienone, 1051–6
TETRACOSAPEPTIDE
Synthesis of 5- and 7-bromotryptophan and of [5-bromotryptophan^9]-β-corticotropin-(1–24)-tetracosapeptide, a highly potent corticotrophin analog, 1928–32
TETRACYCLOALKENE
Intramolecular photocycloaddition reactions of phenyl-vinyl bichromophoric systems, 1761–8
TETRACYCLODODECANEDIONE
Hydrogenation of cyclobutanes in strained cage compounds. Synthesis of ditwistane and bisnorditwistane (ditwistbrendane), 163–9

TETRAHYDRO
Nucleophilic displacement and spiro–complex formation in NN'–dimethyl–N–picrylethylenediamine, 2205–8
Synthesis and some reactions of 3,4,5,6–tetrahydro–3,6–dimethyl–2,6–methano–3–benzazocin–1(2H)–one (2,5–dimethyl–8–oxo–6,7–benzomorphan), 2374–9
TETRAHYDRODIMETHYLMETHANOBENZAZOCINONE
Synthesis and some reactions of 3,4,5,6–tetrahydro–3,6–dimethyl–2,6–methano–3–benzazocin–1(2H)–one (2,5–dimethyl–8–oxo–6,7–benzomorphan), 2374–9
TETRALINCARBOXYLATE
Organoiron complexes in organic synthesis. Part 7. Regio– and stereochemistry of ring connection reactions relevant to steroid and terpene synthesis. Structure of tricarbonyl(methyl 1–[2–5–η–4–methoxy–1–methylcyclohexa–2,4–dienyl]–3–hydroxymethyl–3–methyl–2–oxocyclohexanecarboxylate)iron, 2774–80
TETRAMETHYLENERIBOSE
Preparation of sugars with branched chains, a methylene bridge, or C–1–phenyl substituents by the Ramirez dioxaphosphole condensation, 1262–6
TETRAMIC
Structural investigations of 3–acylpyrrolidine–2,4–diones by nuclear magnetic resonance spectroscopy and x–ray crystallography, 1057–65
TETRANITRIDE
Sulfur nitrides in organic chemistry. Part 8. Reaction of tetrasulfur tetranitride with Grignard reagents and organolithium compounds, 2417–21
TETRANORTRITERPENOID
Tetranortriterpenoids and related compounds. Part 24. The interrelation of swietenine and swietenolide, the major tetranortriterpenoids from the seeds of Swietenia macrophylla (Meliaceae), 529–30
TETRAOL
18–Substituted steroids. Part 5. Further studies on the synthesis of 11β,18,21–trihydroxypregn–4–ene–3,20–dione ('18–hydroxycorticosterone'), 2591–6
TETRAPANAX
New triterpenoids from the leaves of Tetrapanax papyriferum, 325–9
TETRAPHENYL
Sulfur nitrides in organic chemistry. Part 8. Reaction of tetrasulfur tetranitride with Grignard reagents and organolithium compounds, 2417–21
TETRAPHENYLDIHYDROPYRIDINE
Reductive deamination of primary amines, 2554–60
TETRASULFUR
Sulfur nitrides in organic chemistry. Part 8. Reaction of tetrasulfur tetranitride with Grignard reagents and organolithium compounds, 2417–21
TETRAZOLE
New steroidal heterocycles: synthesis and structure of androst–2–eno[2,3–g](tetrazolo[1,5–a]pyrimidines), androst–4–eno[3,2–f](tetrazolo[1,5–a]pyrimidine), and androstano[17,16–f](tetrazolo[1,5–a]pyrimidines), 1019–24
TETROXANE
Reaction of 1,2,4,5–tetroxan with antimony pentachloride or liquid sulfur dioxide: heterolytic fission of carbon–oxygen or oxygen–oxygen bonds, 1950–4
THALIPORPHINE
Studies on tetrahydroisoquinolines. Part 14. A synthesis of 4–alkoxyaporphines, 1165–8
THALLIUM
Addition of thallium triacetate to $PGF_{2\alpha}$ methyl ester and related compounds in acetic acid. Nuclear magnetic resonance spectral study of novel dioxatricyclic and oxabicyclic products, 2572–80
THERMOLYSIS
Partially fluorinated heterocyclic compounds. Part 12. Novel internal Diels–Alder adducts via Claisen rearrangement intermediates from tetrafluoro–4– and –3–pyridyl prop–2–enyl ethers. Syntheses of tetrafluoro–3–aza– and –4–aza–tricyclo[3.3.1.0^{2,7}]non–3–en–6–one, 102–6
Thermal decomposition of aromatic azides. Formation of phenazines and related compounds, 611–13
1,2,3–Benzotriazin–4–ones and related systems. Part 6. Thermal and photolytic decomposition of 3–arylideneamino–, 3–imidoyl–, and 3–heteroaryl–1,2,3–benzotriazin–4–ones, 633–8
Thermolysis of o–alkylnitrosobenzenes. Unusually ready [1,5] hydrogen shift involving a nitroso group, 1365–9
The thermolysis of N–phenyl–N'–sulfinylhydrazine: an interesting source of phenyl radicals, 1901–3
Reactions of spiro–indazoles containing keto–groups. Syntheses of benz[a]aceanthrylenes, naphth[2,1–a]aceanthrylenes, and fluoranthenes, 1944–9
Synthesis of N–hydroxymaleimide and N–hydroxyitaconimide and their related derivatives, 2122–5
The thermolysis of polyazapentadienes. Part 1. 1,5–Diaryl–1,2,5–triaza derivatives, 2200–4
Synthesis and reactions of azidobenzothiazoles and –benzo[b]thiophenes. Novel thiazolo[4,5–g]benzoxazoles and dihydrothieno[3,2–g]benzoxazoles, 2358–61
Reductive deamination of primary amines, 2554–60
THIAAZABICYCLOOCTANONE
Synthesis of 2,4–diazabicyclo[3.3.0]octane–3,7–diones and 3–thioxo–2,4–diazabicyclo[3.3.0]octan–7–one by an intramolecular Michael–type reaction. Stability of 2,4–diaza–, 4–oxa–2–aza–, and 4–thia–2–aza–bicyclo[3.3.0]octane–3,7–diones, 2497–502
THIACYCLOL
Peptidic cyclols. Synthesis, crystal and molecular structure of a tricyclic thiacyclol, 1499–506
THIADIAZINE
The chemistry of o–phenylene di–isothiocyanate. Part 1. Some reactions with N–nucleophiles, 1240–4
THIADIAZINOBENZIMIDAZOLE
Synthesis of [1,3,5]thiadiazino[3,2–a]benzimidazole–2,4(3H)–diones and their sulfur analogs, 762–5
THIADIAZINOISOQUINOLINE
Some reactions of vinylene diisothiocyanate, 2717–20
THIADIAZOLIDINE
Heterocyclic compounds. Part 6. Synthesis of 1,3,4–thiadiazolidines from the reactions of phenyl hydrazones with phenyl isothiocyanate and carbon disulfide, 574–8
THIADIAZOLOBENZIMIDAZOLETHIONE
The chemistry of o–phenylenediisothiocyanate. Part 3. Studies on the syntheses of heterocyclic compounds, 2608–11
THIAMINE
Bacteriostatic activity of fluoro analogs of 5–(2–hydroxyethyl)–4–methylthiazole, a metabolic intermediate in the biosynthesis of thiamine, 2026–8
THIANTHRENE
The synthesis of thiophenium and of oxazolium salts from diazoketones, 1185–93
THIAZINE
Synthesis of heterocyclic compounds via enamines. Part 8. Acid–catalyzed transformations in 4,4,6–trimethyl–1,4–dihydropyrimidine–2(3H)–thione derivatives and related compounds, 1013–18
Synthesis of 5,6–dihydro–4H–1,3,5–dithiazines, 2,3–dihydro–6–thioxo–6H–1,3–thiazine, and 6–amino–1,3–dithiins, 1038–44
The chemistry of o–phenylene diisothiocyanate. Part 2. Reactions with enamines, an ynamine and some reactive methylene compounds, 2587–90
THIAZOLE
Bacteriostatic activity of fluoro analogs of 5–(2–hydroxyethyl)–4–methylthiazole, a metabolic intermediate in the biosynthesis of thiamine, 2026–8
THIAZOLIDINETHIONE
Utilization of sulfur–containing leaving groups. Part 2. Monitored reduction of carboxylic acids into alcohols or aldehydes via 3–acylthiazolidine–2thiones by sodium borohydride or diisobutylaluminum hydride, 2470–3
THIAZOLINE
Stereospecific transformations of steroidal 2,3–aziridines into substituted amino thiols and ring–A fused heterocycles, 766–74
7–Alkylation and 7–sulfonylation of 5,6–dihydroimidazolo[2,1–b]thiazoles, 1773–8
THIAZOLOAZEPINE
Synthesis and photolysis of azidobenzo[b]thiophenes, –benzothiazoles, –benzimidazoles, and –indazoles: novel 6,7–diaminobenzothiazoles, –benzimidazoles, and –indazoles and 6–diethylamino–8H–thiazolo[5,4–c]azepines, 2362–70
THIAZOLOBENZIMIDAZOLE
Steroidal heterocycles: synthesis and structure of imidazo[2,1–b]thiazolo–, thiazolo[3,2–a]benzimidazolo–, and thiazolo[3,2–b]–s–triazolo–derivatives, 2146–51
THIAZOLOBENZOXAZOLE
Synthesis and reactions of azidobenzothiazoles and –benzo[b]thiophenes. Novel thiazolo[4,5–g]benzoxazoles and dihydrothieno[3,2–

THIAZOLOBENZOXAZOLE(contd)
–g]benzoxazoles, 2358–61
THIAZOLOTRIAZOLE
Steroidal heterocycles: synthesis and structure of imidazo[2,1–b]thiazolo–, thiazolo[3,2–a]benzimidazolo–, and thiazolo[3,2–b]–s–triazolo–derivatives, 2146–51
THIAZOLYLBENZOTRIAZINONE
1,2,3–Benzotriazin–4–ones and related systems. Part 6. Thermal and photolytic decomposition of 3–arylideneamino–, 3–imidoyl–, and 3–heteroaryl–1,2,3–benzotriazin–4–ones, 633–8
THIENOBENZOXAZOLE
Synthesis and reactions of azidobenzothiazoles and –benzo[b]thiophenes. Novel thiazolo[4,5–g]benzoxazoles and dihydrothieno[3,2–g]benzoxazoles, 2358–61
THIENODIAZEPINE
The synthesis of 1H– and 5H–thieno[1,2]diazepines by the electrocyclization of α–(2–alkenylthienyl)diazoalkanes, and some observations on their photochemical reactivity and ring inversion 1718–23
THIENOISOTHIAZOLE
Condensed isothiazoles. Part 5. Thieno[2,3–d]isothiazoles and thien[3,2–d]isothiazoles, 1029–37
THIENOOXATHIAZEPINE
Condensed isothiazoles. Part 5. Thieno[2,3–d]isothiazoles and thien[3,2–d]isothiazoles, 1029–37
THIENOPYRIMIDINE
The synthesis of thieno[2,3–d]pyrimidine nucleosides related to the naturally occurring nucleosides cytidine and uridine, 1853–8
THIENOTHIANTHRENIUM
The synthesis of thiophenium and of oxazolium salts from diazoketones, 1185–93
THIENYL
Benzazoles. Part 12. Synthesis of 2–(tetrahydro–2–thienyl)benzimidazoles and their unsaturated derivatives by the reaction of 2–mercaptoalkylbenzimidazoles with β–electrophilic ketones, 699–704
THIENYLBENZIMIDAZOLE
Benzazoles. Part 12. Synthesis of 2–(tetrahydro–2–thienyl)benzimidazoles and their unsaturated derivatives by the reaction of 2–mercaptoalkylbenzimidazoles with β–electrophilic ketones, 699–704
THIENYLPHENYLAZETIDINOL
Light–induced reactions of heteroaryl N–methylanilinomethyl ketones: formation of 3–heteroaryl–1–phenylazetidin–3–ols, 2371–3
THIETANONE
Studies related to penicillins. Part 19. Alkylations of (3R–3–((1S,5R)–3–benzyl–7–oxo–4–oxa–2,6–diazabicyclo[3.2.0]hept–2–en–6–yl)–4,4–dimethylthietan–2–one, 388–94
THIOACETAL
The S–alkylation of sulfides by an activated carbohydrate epimine under acidic catalysis: the formation of α–acetamido–sulfides. Part 4. Reactions with dithioacetals and monothioacetals, 540–52
Removal of thioacetal protecting groups by benzeneseleninic anhydride, 1654–7
THIOAURONE
Preparation of 2–arylmethylene–5–methylbenzo[b]thiophen–3(2H)–one 1–oxides, 1,1–dioxides, spiroepoxides, 1–oxide spiroepoxides, and 1,1–dioxide spiroepoxides, 1194–8
THIOBENZOATE
Stereospecific transformations of steroidal 2,3–aziridines into substituted amino thiols and ring–A fused heterocycles, 766–74
THIOCARBAMATE
Acid–catalyzed rearrangement of bis–5,6–dihydro–4H–1,3–thiazin–2–yl and other disulfides and related reactions, 665–71
Some reactions of vinylene diisothiocyanate, 2717–20
THIOCARBAMOYLDITHIOLE
Studies on heterocyclic chemistry. Part 21. Reactions of 3–mercapto– and 3–acylthio–3–isothiazoline–5–thiones: ring transformations, a base–induced ring cleavage, and thiol ester–thioxo ester rearrangements, 2693–9
THIOCARBONATE
Synthesis of [1,3,5]thiadiazino[3,2–a]benzimidazole–2,4(3H)–diones and their sulfur analogs, 762–5
THIOCARBONYL
Conversion of thiocarbonyl compounds into their corresponding oxo–derivatives using benzeneseleninic anhydride, 1650–3
Some reactions of vinylene diisothiocyanate, 2717–20
THIOCARBONYLBENZIMIDAZOLINETHIONE
The chemistry of o–phenylenediisothiocyanate. Part 3. Studies on the syntheses of heterocyclic compounds, 2608–11
THIOCARBONYLIMIDAZOLINE
Some reactions of vinylene diisothiocyanate, 2717–20
THIOCYANATE
The formation of complexes between aza–derivatives of crown ethers and primary alkylammonium salts. Part 6. Bis(mono–aza)crown ethers, 586–600
Heterocycles in organic synthesis. Part 36. An alternative to the Gattermann reaction for the conversion of anilines into thiocyanates, 865–8
THIOCYANOGEN
Cyanation using the combined reagent, triphenylphosphine–thiocyanogen (TPPT): a new general route to indole and pyrrole carbonitriles, 1132–5
THIOETHER
Stereochemical and mechanistic aspects of sulfoxide, epoxide, arene oxide, and phenol formation by photochemical oxygen atom transfer from azaaromatic N–oxides, 1693–9
THIOIMIDAZOTHIADIAZOLE
Some reactions of vinylene diisothiocyanate, 2717–20
THIOL
Alkyloxytris(dimethylamino)phosphonium salts. Part 21. Anomeric hydroxy–group activation of 2,3:4,6–di–O–isopropylidene–α–D–mannopyranose, thioglycosylation, and glycosylation, 381–4
Michael additions to α,β–unsaturated sulfoximides in two–phase systems. Kinetic resolution by means of chiral phase–transfer catalysts, 2422–4
THIOLACTAM
Synthesis and some reactions of 3,4,5,6–tetrahydro–3,6–dimethyl–2,6–methano–3–benzazocin–1(2H)–one (2,5–dimethyl–8–oxo–6,7–benzomorphan), 2374–9
THIOLATE
Radical–nucleophilic substitution ($S_{RN}1$) reactions: preparation and reactions of α–nitrosulfides, 1407–13
THIOLATION
Quinones. Part 9. Sidechain alkylthiolation of methyl–1,4–naphthoquinones, 282–8
THIOMANNOSIDE
Alkyloxytris(dimethylamino)phosphonium salts. Part 21. Anomeric hydroxy–group activation of 2,3:4,6–di–O–isopropylidene–α–D–mannopyranose, thioglycosylation, and glycosylation, 381–4
THIONE
Heterocyclic compounds. Part 6. Synthesis of 1,3,4–thiadiazolidines from the reactions of phenyl hydrazones with phenyl isothiocyanate and carbon disulfide, 574–8
THIOPHENE
Ring opening reactions. Part 16. Ring opening of (2,5–dimethoxy–3–thienyl)lithium and some related compounds, 1390–2
The photochemical cycloaddition of furan and benzene, 2174–8
THIOPHENECARBALDOXIME
Condensed isothiazoles. Part 5. Thieno[2,3–d]isothiazoles and thien[3,2–d]isothiazoles, 1029–37
THIOPHENIUM
The synthesis of thiophenium and of oxazolium salts from diazoketones, 1185–93
THIOPHENOL
The chemistry of o–phenylenediisothiocyanate. Part 3. Studies on the syntheses of heterocyclic compounds, 2608–11
THIOPHENYLATION
Epoxy ring opening reactions of endo– and exo–3,4–epoxy–6–azabicyclo[3.2.0]heptan–7–ones, 690–2
THIOPYRIDINE
Polyhaloaromatic compounds. Part 41. Photochemical dehalogenation and arylation reactions of polyhaloaromatic and polyhaloheteroaromatic compounds, 648–56
THIOPYRYLIUM
Heterocycles in organic synthesis. Part 13. The reaction of 2,4–diphenylthiopyrylium perchlorate with amines, 1345–6
THIOSEMICARBAZIDE
Some reactions of vinylene diisothiocyanate, 2717–20
THIOUREA
Acid–catalyzed rearrangement of bis–5,6–dihydro–4H–1,3–thiazin–2–yl and other disulfides and related reactions, 665–71
Restricted rotation about the carbon–nitrogen single bond of 1–aryl–4,6–dimethylpyrimidin–2(1H)–ones and the corresponding thiones, 1599–602

THIOVALINE
Studies related to penicillins and cephalosporins. Part 5. A new relay synthesis of penicillin, 11–13
THIOXO
Synthesis of [1,3,5]thiadiazino[3,2–a]benzimidazole–2,4(3H)–diones and their sulfur analogs, 762–5
Synthesis of 5,6–dihydro–4H–1,3,5–dithiazines, 2,3–dihydro–6–thioxo–6H–1,3–thiazine, and 6–amino–1,3–dithiins, 1038–44
Reaction of monothio derivatives of 2–heteroarylideneindene–1,3(2H)–diones with quinones, 1070–5
THIOXODIAZABICYCLOOCTANONE
Synthesis of 2,4–diazabicyclo[3.3.0]octane–3,7–diones and 3–thioxo–2,4–diazabicyclo[3.3.0]octan–7–one by an intramolecular Michael–type reaction. Stability of 2,4–diaza–, 4–oxa–2–aza–, and 4–thia–2–aza–bicyclo[3.3.0]octane–3,7–diones, 2497–502
THIOXOINDENONE
Reaction of monothio derivatives of 2–heteroarylideneindene–1,3(2H)–diones with quinones, 1070–5
TIGOGENINE
Chromyl halide oxidation of steroid alkenes, 639–42
TIN
Selective reactions between phenols and formaldehyde. A novel route to salicylaldehydes, 1862–5
TOLUENE
Preparation and trapping of sulfenic acids, 237–9
The photocycloaddition of vinyl acetate to benzene and its simple derivatives: functionalization of the dihydrosemibullvalene skeleton, 1118–23
Photochemical reactions of benzene derivatives with electron–donor ethylenes, 1218–24
Homolytic reaction of N–halosulfoximides with olefins and toluene 1257–61
TOLUENESULFENATE
Preparation and trapping of sulfenic acids, 237–9
TOLYLHEPTANONE
A simple and efficient total synthesis of the sesquiterpenes cuparene and iso–α–curcumene, from furan derivatives, 759–61
TOLYLHEXANEDIONE
A simple and efficient total synthesis of the sesquiterpenes cuparene and iso–α–curcumene, from furan derivatives, 759–61
TOLYLSULFONATE
Product formation and identification in the reaction of 6–endo–hydroxy–5–exo–iodo–3–exo–phenylnorborn–2–endo–ylcarboxylic acid γ–lactone with silver toluene–p–sulfonate, 1578–82
TOLYLSULFONATION
Product formation and identification in the reaction of 6–endo–hydroxy–5–exo–iodo–3–exo–phenylnorborn–2–endo–ylcarboxylic acid γ–lactone with silver toluene–p–sulfonate, 1578–82
TOLYLSULFONYLBUTADIENE
Stereochemistry of Diels–Alder reactions of allenic sulfones; transfer of asymmetry from allenic to norbornene systems, 1646–9
TOXYLOXANTHONE
Studies in the xanthone series. Part 13. Structural and synthetic studies on toxyloxanthone B, 2353–7
TRANSACYLATION
Stereospecific transformations of steroidal 2,3–aziridines into substituted amino thiols and ring–A fused heterocycles, 766–74
TRANSCARBAMYLASE
Inhibitors of pyrimidine biosynthesis. Part 1. Synthesis of potential transition–state analogs of aspartate transcarbamylase, 2721–7
TRANSFER
Ene–type reactions involving transfer of acyl groups. Addition of 4–phenyl–1,2,4–triazoline–3,5–dione to various unsaturated compounds, 843–5
Heterocycles in organic synthesis. Part 13. The reaction of 2,4–diphenylthiopyrylium perchlorate with amines, 1345–6
Alkylidene transfer from (monochloroalkyl)mercury(II) compounds to aromatic amines; selective C–alkylation, 1420–6
Stereochemical and mechanistic aspects of sulfoxide, epoxide, arene oxide, and phenol formation by photochemical oxygen atom transfer from azaaromatic N–oxides, 1693–9
A novel hydrazino–transfer reaction to a saturated carbon: direct conversion of substituted acetophenone and aliphatic ketone 4–nitrophenylhydrazones into 1,2–bishydrazones. Reactions of mercury(II) acetate with nitrogen compounds. Part 6, 2218–21
TRANSFORMATION
Studies on heterocyclic chemistry. Part 21. Reactions of 3–mercapto– and 3–acylthio–3–isothiazoline–5–thiones: ring transformations, a base–induced ring cleavage, and thiol ester–thioxo ester rearrangements, 2693–9
TRANSPOSITION
N–Oxides and related compounds. Part 60. Novel thermal and photochemical rearrangements of N–substituted 2–pyridones, 2743–54
TRAPPING
Preparation and trapping of sulfenic acids, 237–9
TREHALOSE
'Le BOP' reagent and imidazole for selective O–acylation of trehalose, 1940–3
TRIACETATE
Addition of thallium triacetate to $PGF_{2\alpha}$ methyl ester and related compounds in acetic acid. Nuclear magnetic resonance spectral study of novel dioxatricyclic and oxabicyclic products, 2572–80
TRIACETYL
Syntheses of 1– and 6–S– and 1– and 6–Se–derivatives of 2–amino–2–deoxy–α/β–D–glucopyranose, 2287–93
Photobromination of carbohydrate derivatives. Part 5. Preparation and reactions of (5S)–1,2,3,4–tetra–O–acetyl–5–bromo–β–D–xylopyranose; a new type of 'double–headed' nucleoside, 2767–73
TRIACETYLDEOXYGLUCOPYRANOSYL
Syntheses of 1– and 6–S– and 1– and 6–Se–derivatives of 2–amino–2–deoxy–α/β–D–glucopyranose, 2287–93
TRIACETYLDICHLOROPURINYLXYLOPYRANOSYL
Photobromination of carbohydrate derivatives. Part 5. Preparation and reactions of (5S)–1,2,3,4–tetra–O–acetyl–5–bromo–β–D–xylopyranose; a new type of 'double–headed' nucleoside, 2767–73
TRIARYLHYDROXY
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
TRIARYLHYDROXYPROPIOPHENONE
Some novel photochemical and related aryl couplings and migrations in flavonoid synthesis, 2856–65
TRIAZAPENTALENE
Singlet oxygen photooxidation of some triazapentalenes, 2904–8
TRIAZINE
Heterocyclic polyfluoro–compounds. Part 32. Perfluoroalkylation of trifluoro–1,2,4–triazine, 2254–7
Enamidines. Part 1. Synthesis of enamidines and dihydrotriazines by the reaction of organolithium and organomagnesium compounds with aromatic nitriles, 2392–7
TRIAZINONE
Bicyclic heterocycles with nitrogen at the ring junction. Part 2. Application of the Dakin–West reaction to the synthesis of imidazo[5,1–f]–1,2,4–triazin–4(3H)–ones, 1139–46
TRIAZOLE
v–Triazolines. Part 12. Synthesis of 5–amino–1–aryl–4–methylene–4,5–dihydro–v–triazoles, 141–5
Isomerism and lead(IV) acetate oxidation reactions of p–substituted phenylosazones of some substituted glyoxals and 1,2–diketones. Reactions of metallic acetates with nitrogen compounds. Part 5, 744–9
The preparation of derivatives containing the imidazo[2,1–b]thiazine and 1,2,4–triazolo[3,2–b][1,3]thiazine systems, 1352–5
v–Triazolo[4,5–d]pyrimidines (8–azapurines). Part 22. Synthesis of 2–amino– and 2–oxo–derivatives of N–alkyl–1,6–dihydro–8–azapurines from the corresponding 4–amino–5–aminomethyl–1,2,3–triazoles, 2918–22
TRIAZOLINEDIONE
Unsaturated steroids. Part 10. The mechanism of the anthrasteroid rearrangement: the conformation of anthrasteroids, 1779–81
TRIAZOLOPYRAZINE
Ring opening or rearrangement versus N–oxidation in the action of peracids upon pyrrolo[2,3–b]pyridines, pyrrolo[2,3–b]pyrazines, and triazolo[1,5–a]– and triazolo[4,3–a]pyrazine. Some chemical and spectroscopic properties of the triazolopyrazines and their N–oxides, 506–11
TRIAZOLOPYRIMIDONE
X–ray analysis of 6–ethoxycarbonyl–4–ethylpyrazolo[1,5–a]pyrimid–7(4H)–one and 6–ethoxycarbonyl–4–ethyl–1,2,4–triazolo[1,5–a]pyrimid–7(4H)–one, 1347–51
TRIAZOLOTHIAZINETHIONE
Derivatives of 3H–1,2,3–triazolo[4,5–d][1,3]thiazine, a new heterocyclic nucleus. Some shifts of a methylene group from a nitrogen to a sulfur atom, 2009–12

TRIAZOLOTHIAZINONE
The preparation of derivatives containing the imidazo[2,1-b]thiazine and 1,2,4-triazolo[3,2-b][1,3]thiazine systems, 1352–5
TRICARBONYL
Organoiron complexes in organic synthesis. Part 6. Dienolonium equivalents: tricarbonyl-[1-alkoxy-2-(1-5-η-4-methoxycyclohexa-2,4-dienylium)ethane]iron hexafluorophosphates and related complexes leading to masked 4,4-disubstituted cyclohexenones, 2238–43
TRICARBONYLCYCLOHEXADIENYLIUMIRON
Organoiron complexes in organic synthesis. Part 7. Regio- and stereochemistry of ring connection reactions relevant to steroid and terpene synthesis. Structure of tricarbonyl(methyl 1-[2-5-η-4-methoxy-1-methylcyclohexa-2,4-dienyl]-3-hydroxymethyl-3-methyl-2-oxocyclohexanecarboxylate)iron, 2774–80
TRICARBONYLMETHOXYMETHYL
Organoiron complexes in organic synthesis. Part 7. Regio- and stereochemistry of ring connection reactions relevant to steroid and terpene synthesis. Structure of tricarbonyl(methyl 1-[2-5-η-4-methoxy-1-methylcyclohexa-2,4-dienyl]-3-hydroxymethyl-3-methyl-2-oxocyclohexanecarboxylate)iron, 2774–80
TRICHLORMETHIAZIDE
Fluorination of trichlormethiazide with fluoroxytrifluoromethane, 712–13
TRICHODERMA
Lanosterol derivatives as precursors in the biosynthesis of viridin. Part 1, 422–5
TRICYCLIC
Reaction of 6-bromobenzocyclohepten-5-one with amines, 2077–80
Preparation and some reactions of 2-oxatricyclo[3.3.0.0^{4,6}]oct-7-en-3-one: synthesis of 9-deoxa-9,10-dehydroprostaglandin D_2, 2093–7
A study of the reaction between the dichloromethylphosphine–aluminum chloride complex and terpenes. Part 2. Reaction of the dichloromethylphosphine–aluminum chloride complex and camphene, and an x-ray crystallographic study of the products, 2136–40
TRICYCLOHEPTANONE
Conjugate, homoconjugate, and 1,2-additions of acetylene nucleophiles and their application to prostaglandin synthesis, 2346–52
TRICYCLOOCTANONE
Photochemistry of substituted cyclic enones. Part 2. 5-[Prop-2-enyl]cyclopentenones, 1516–22
TRICYCLOUNDECENONE
Hydrocyclopropa[b]anthracene derivatives, 176–80
TRIDECATETRAENEDIYNONE
Syntheses and properties of methyl-substituted benzannelated tetradehydro[13]annulenones, 466–72
TRIDEOXY
Branched-chain sugars. Part 10. Some approaches to the synthesis of L-evernitrose (2,3,6-trideoxy-3-C,4-O-dimethyl-3-nitro-L-arabinohexopyranose), 2054–60
TRIETHYL
Chemistry of O-alkyl selenoesters. Reaction with triethylphosphine 1627–34
TRIFLATE
Alkyltrifluoromethanesulfonates as alkylating reagents for aromatic compounds, 2887–94
TRIFLIC
Alkyltrifluoromethanesulfonates as alkylating reagents for aromatic compounds, 2887–94
The chemistry of nitrilium salts. Part 1. Acylation of phenols and phenol ethers with nitriles and trifluoromethanesulfonic acid, 2894–900
TRIFLUORO
Heterocyclic polyfluoro-compounds. Part 32. Perfluoroalkylation of trifluoro-1,2,4-triazine, 2254–7
TRIFLUOROACETATE
Selectivity in the hydrogenation of 6- and 8-substituted quinolines, 1933–9
TRIFLUOROACETIC
Chemistry of quinones. Part 6. The selective hydrolysis of α-acetoxyanthraquinones and related compounds by trifluoroacetic acid containing small amounts of water, 1592–4
TRIFLUOROIODOMETHANE
Addition of free radicals to unsaturated systems. Part 23. Photochemical and thermal reactions of trifluoroiodomethane with but-2-ene and but-1-ene, 927–32
TRIFLUOROMETHANESULFONATE
Formylation and acylation reactions catalyzed by trifluoromethanesulfonic acid, 181–6
TRIFLUOROMETHYL
Fluoro olefin chemistry. Part 13. A further route to perfluoro-2,3-dimethylbut-2-ene and the photochemical rearrangement of some perfluoroalkyl olefins, 487–9
Studies on organic fluorine compounds. Part 35. Trifluoromethylation of pyrimidine and purine nucleosides with trifluoromethyl-copper complex, 2755–62
TRIFLUOROMETHYLATION
Studies on the organic fluorine compounds. Part 27. Abnormal reactions in the trifluoromethylation of aromatic compounds with trifluoromethyl iodide and copper powder, 661–4
Studies on organic fluorine compounds. Part 35. Trifluoromethylation of pyrimidine and purine nucleosides with trifluoromethyl-copper complex, 2755–62
TRIFLUORONITROSOMETHANE
Polyfluoroalkyl derivatives of nitrogen. Part 48. The addition of N-haloamines $(CF_3)_2NX$ to cyclohexa-1,3- and -1,4-dienes; a new synthesis of NN-bis(trifluoromethyl)aniline, 1544–50
TRIFLUOROPERFLUOROALKYLATION
Heterocyclic polyfluoro-compounds. Part 32. Perfluoroalkylation of trifluoro-1,2,4-triazine, 2254–7
TRIFLUOROTRIAZINE
Heterocyclic polyfluoro-compounds. Part 32. Perfluoroalkylation of trifluoro-1,2,4-triazine, 2254–7
TRIHYDROXY
Acid-catalyzed dehydration of withanolide E, a 14α,17β,20α-trihydroxy steroid; a revision, 531–4
18-Substituted steroids. Part 5. Further studies on the synthesis of 11β,18,21-trihydroxypregn-4-ene-3,20-dione ('18-hydroxycorticosterone'), 2591–6
TRIHYDROXYDRIMANE
Crystal structure and absolute configuration of a new sesquiterpenoid metabolite of Fomes annosus, 7α,8β,11-trihydroxydrimane, 2196–9
TRIISOPROPYL
Sultone formation from 2,4,6-triisopropylbenzenesulfinic acid, 1076–9
TRIISOPROPYLBENZENESULFINIC
Sultone formation from 2,4,6-triisopropylbenzenesulfinic acid, 1076–9
TRIMETHYL
Photochemistry of substituted cyclic enones. Part 2. 5-[Prop-2-enyl]cyclopentenones, 1516–22
Friedel–Crafts reactions of some vinylsilanes, 2485–9
Methylation study of ribonucleosides, deoxyribonucleosides, and 2'-O-methylribonucleosides with trimethylsulfonium hydroxide and trimethylsulfonium iodide. Influence of the 2'-hydroxy-groups on the reactivity of the base moieties of ribonucleosides, 2787–92
TRIMETHYLSILYL
Friedel–Crafts reactions of some vinylsilanes, 2485–9
TRIMETHYLSULFONIUM
Methylation study of ribonucleosides, deoxyribonucleosides, and 2'-O-methylribonucleosides with trimethylsulfonium hydroxide and trimethylsulfonium iodide. Influence of the 2'-hydroxy-groups on the reactivity of the base moieties of ribonucleosides, 2787–92
TRIOL
Intramolecular alkylation of phenols. Part 5. A regiospecific anionic ring closure of phenols via quinone methides, 1567–77
TRIOXANE
Synthesis and reactions of 5-arylamino-1,2,4-trioxanes, 2300–3
TRIOXIDE
Synthesis and reactions of 1,6-diaryl-2,5-bis(diazo)-1,3,4,6-tetraoxohexanes, 2670–7
TRIOXO
Convenient syntheses of alkyl β-resorcylate derivatives, 2272–7
TRIOXOOCTANOATE
Convenient syntheses of alkyl β-resorcylate derivatives, 2272–7
TRIPEPTIDE
Structural studies of azacyclols derived from linear tripeptides, 809–16
TRIPHENYL
N-Chloro- and NN-dichloro derivatives of some phosphinic amides: preparation and reactions with anthracene, anisole, and

TRIPHENYL(contd)
triphenylarsine, 705–11
TRIPHENYLPHOSPHINE
Novel reagent system for converting a hydroxy-group into an iodo-group in carbohydrates with inversion of configuration. Part 2, 2866–9
TRIPHENYLPHOSPHINOMETHYLNAPHTHALENE
Synthesis of potentially basic hydrocarbons by sulfur extrusion and/or bis-Wittig reactions. Two syntheses of benz[5,6]indeno[2,-1-a]phenalene and a new synthesis of dibenzo[de,mn]naphthacene (zethrene), 2812–17
TRIPLET
Competitive cyclizations of singlet and triplet nitrenes. Part 8. The 1-(2-nitrenophenyl)pyrazoles and related systems, 982–94
TRISACCHARIDE
Artificial carbohydrate antigens: synthesis of rhamnose trisaccharide and disaccharide haptens common to Shigella flexneri O-antigens, 297–301
TRISALKARYL
Preparation and properties of tertiary p-alkylarylphosphines containing straight-chain alkyl groups, 2233–7
TRITERPENE
Electroorganic reactions. Part 16. The preparative-scale cathodic hydrogenolysis and coupling of benzyl-, allyl-, cinnamyl-, and polyenylphosphonium salts, 1154–60
Bryocoumaric acid, a new triterpene from Bryonia dioica, 2933–6
TRITERPENOID
New triterpenoids from the leaves of Tetrapanax papyriferum, 325–9
Tetranortriterpenoids and related compounds. Part 24. The interrelation of swietenine and swietenolide, the major tetranortriterpenoids from the seeds of Swietenia macrophylla (Meliaceae), 529–30
Dehydrogenation of steroidal and triterpenoid ketones using benzeneseleninic anhydride, 2209–12
TRITIATION
Partial synthesis of gibberellin A_9 and [3α- and 3β-$^2H_1$]gibberellin A_9; gibberellin A_5 and [1β3-$^2H_2$ and -$^3H_2$] gibberellin A_5; and gibberellin A_{20} and [1β,3α-$^2H_2$ and -$^3H_2$]gibberellin A_{20}, 885–91
Biosynthesis of aromatic isoprenoids. Part 5. The preparation of l-(3,3-dimethylallyl)-L-tryptophan and cyclo-L-alanyl-l-(3,3-dimethyl-allyl)-L-tryptophan and their nonincorporation into echinulin, 1294–8
TRITIUM
Tritiated peptides. Part 8. Synthesis of [3,5-$^3H_2$-Tyr^2]-, [4-^{3}H-Phe^7]-, and [3,5-$^3H_2$-Tyr^{23}]-human corticotropin, 462–5
TRYPTOPHAN
Biosynthesis of aromatic isoprenoids. Part 5. The preparation of l-(3,3-dimethylallyl)-L-tryptophan and cyclo-L-alanyl-l-(3,3-dimethyl-allyl)-L-tryptophan and their nonincorporation into echinulin, 1294–8
TYPE
Light-induced reactions of heteroaryl N-methylanilinomethyl ketones: formation of 3-heteroaryl-1-phenylazetidin-3-ols, 2371–3
TYROSINE
Studies of enzyme-mediated reactions. Part 12. Stereochemical course of the decarboxylation of (2S)-tyrosine to tyramine by microbial, mammalian, and plant systems, 31–42
ULLMANN
Polyhalogenoaromatic compounds. Part 43. Inter- and intra-molecular reactions of polychloroaromatic compounds with copper, 1682–7
ULOSONATE
Synthetic C-glycosyl nucleosides. A new approach, 2683–5
UNSATD
A new route to 5-substituted resorcinols and related systems, 170–5
Photocyclization of enamides. Part 14. Substituent effects in the photocyclization of N-α,β-unsaturated acylanilides, 197–202
Benzazoles. Part 12. Synthesis of 2-(tetrahydro-2-thienyl)benzimidazoles and their unsaturated derivatives by the reaction of 2-mercaptoalkylbenzimidazoles with β-electrophilic ketones, 699–704
Ene-type reactions involving transfer of acyl groups. Addition of 4-phenyl-1,2,4-triazoline-3,5-dione to various unsaturated compounds, 843–5
β-Silylcarbonyl compounds as masked enones, 1493–8
Lithium ketene thioacetalides. Factors influencing α- versus γ-alkylation, 2678–82
Condensation of α,β-unsaturated amines with perfluoroarenes, 2845–50
URACIL
Photobromination of carbohydrate derivatives. Part 5. Preparation and reactions of (5S)-1,2,3,4-tetra-O-acetyl-5-bromo-β-D-xylopyranose; a new type of 'double-headed' nucleoside, 2767–73
URANYL
Metal-catalyzed organic photoreactions. Evidence for the long-range electron-transfer mechanism in the uranyl- or iron(III)-catalyzed photoreactions of olefins, 947–9
UREA
Restricted rotation about the carbon–nitrogen single bond of 1-aryl-4,6-dimethylpyrimidin-2(1H)-ones and the corresponding thiones, 1599–602
Synthesis of 2,4-diazabicyclo[3.3.0]octane-3,7-diones and 3-thioxo-2,4-diazabicyclo[3.3.0]octan-7-one by an intramolecular Michael-type reaction. Stability of 2,4-diaza-, 4-oxa-2-aza-, and 4-thia-2-aza-bicyclo[3.3.0]octane-3,7-diones, 2497–502
URIDINE
The synthesis of thieno[2,3-d]pyrimidine nucleosides related to the naturally occurring nucleosides cytidine and uridine, 1853–8
URISHIOL
Vesicant principles of poison ivy and related plants: synthesis of the urushiols, 1,2-dihydroxy-3-[(Z)-pentadec-8-enyl]benzene and 1,2-dihydroxy-3-pentadecylbenzene, 2331–7
USCHARIDIN
Stereochemistry of the hexosulose in cardenolide glycosides of the Asclepiadaceae, 2162–8
USCHARIN
Stereochemistry of the hexosulose in cardenolide glycosides of the Asclepiadaceae, 2162–8
UV
2,2'-Bridged biphenyls with 12-membered heterocyclic bridging rings. Part 1. Tetrabenzo[b,d,h,j][1,6]diazacyclododecines, 107–12
Syntheses and properties of methyl-substituted benzannelated tetradehydro[13]annulenones, 466–72
UVIDIN
Fungal metabolites. Part 5. Uvidins, new drimane sesquiterpenes from Lactarius uvidus Fries, 221–6
VACUUM
The thermolysis of polyazapentadienes. Part 1. 1,5-Diaryl-1,2,5-triaza derivatives, 2200–4
VARIAMYCIN
Identification of variose as 2,6-dideoxy-3-O-methyl-D-ribo-hexose (D-cymarose), 1800–3
VARIOSE
Identification of variose as 2,6-dideoxy-3-O-methyl-D-ribo-hexose (D-cymarose), 1800–3
VILLIGER
Photochemistry of substituted cyclic enones. Part 2. 5-[Prop-2-enyl]cyclopentenones, 1516–22
VINYL
Hydrocyclopropa[b]anthracene derivatives, 176–80
Reaction between 1,1-dilithioalkyl phenyl sulfones and ω-bromo esters. Synthesis of cyclic vinyl ethers, 260–3
Nitrosation and nitrosylation of hemoproteins and related compounds. Part 3. Attack at the vinyl groups of protoporphyrin dimethyl ester. X-ray analysis of 8^1(E)-8^2-nitroprotoporphyrin dimethyl ester, 490–4
o-Quinonoid compounds. Part 16. 1,5-Shift of vinyl groups in 1,3-dimethylindenes; product studies and migratory aptitudes of substituted vinyl groups, 714–21
The photocycloaddition of vinyl acetate to benzene and its simple derivatives: functionalization of the dihydrosemibullvalene skeleton, 1118–23
Photochemical reactions of benzene derivatives with electron-donor ethylenes, 1218–24
Intramolecular photocycloaddition reactions of phenyl-vinyl bichromophoric systems, 1761–8
o-Quinonoid compounds. Part 17. Evidence for exo-selectivity in the 1,5-sigmatropy of acyl and vinyl groups, 1909–15
Friedel–Crafts reactions of some vinylsilanes, 2485–9
VINYLAMIDE
Studies of lysergic acid diethylamide and related compounds. Part 8. Structural identification of new metabolites of lysergic acid diethylamide obtained by microbial transformation using Streptomyces roseochromogenes, 902–5

VINYLBENZOHYDRAZONYL
New aspects in the base-promoted cyclization of o-vinylbenzohydrazonyl chlorides, 116–18
VINYLENE
Some reactions of vinylene diisothiocyanate, 2717–20
VINYLINDENE
o-Quinonoid compounds. Part 16. 1,5-Shift of vinyl groups in 1,3-dimethylindenes; product studies and migratory aptitudes of substituted vinyl groups, 714–21
VINYLPORPHYRIN
Nitrosation and nitrosylation of hemoproteins and related compounds. Part 3. Attack at the vinyl groups of protoporphyrin dimethyl ester. X-ray analysis of 8¹(E)–8²-nitroprotoporphyrin dimethyl ester, 490–4
VINYLSILANE
Friedel–Crafts reactions of some vinylsilanes, 2485–9
VIOLENT
Synthesis and reactions of 1,6-diaryl-2,5-bis(diazo)-1,3,4,6-tetraoxohexanes, 2670–7
VIRIDIN
Lanosterol derivatives as precursors in the biosynthesis of viridin. Part 1, 422–5
VITAMIN
Calciferol and its relatives. Part 27. A synthesis of 1α-hydroxyvitamin D_3 by way of 1α-hydroxytachysterol$_3$, 1400–4
Calciferol and its relatives. Part 28. A stereoselective synthesis of 1α-hydroxyprecalciferol$_3$ from (8-hydroxymethyl)des-AB-cholest-8-ene, 1405–6
VORUSCHARIN
Stereochemistry of the hexosulose in cardenolide glycosides of the Asclepiadaceae, 2162–8
WADSWORTH
Further synthetic investigations in the eremophilane sesquiterpene group. Synthesis of (±)-isovalencenic acid, (±)-isovalencenol, and their (Z)-isomers, and experiments directed towards the synthesis of tessaric acid, 1752–5
WEST
Bicyclic heterocycles with nitrogen at the ring junction. Part 2. Application of the Dakin–West reaction to the synthesis of imidazo[5,1-f]-1,2,4-triazin-4(3H)-ones, 1139–46
WITHANOLIDE
Acid-catalyzed dehydration of withanolide E, a 14α,17β,20α$_P$-trihydroxy steroid; a revision, 531–4
WITTIG
Lythraceous alkaloids. Part 11. Total synthesis of (±)-lythranidine 1066–9
Polymer-supported phosphonates. Olefins from aldehydes, ketones, and dioxolanes by means of polymer-supported phosphonates, 2516–19
Synthesis of potentially basic hydrocarbons by sulfur extrusion and/or bis-Wittig reactions. Two syntheses of benz[5,6]indeno[2,1-a]phenalene and a new synthesis of dibenzo[de,mn]naphthacene (zethrene), 2812–17
XANTHATE
Conversion of thiocarbonyl compounds into their corresponding oxo-derivatives using benzeneseleninic anhydride, 1650–3
XANTHONE
Further total syntheses of chlorine-containing lichen xanthones, 85–9
Studies in the xanthone series. Part 13. Structural and synthetic studies on toxyloxanthone B, 2353–7
XIII
Biosynthesis of porphyrins and related macrocycles. Part 13. Structure of the protoporphyrin isomer derived from coproporphyrinogen IV by the action of beef-liver coproporphyrinogenase: synthesis of protoporphyrin XIII, 1283–9
XYLENE
The photocycloaddition of vinyl acetate to benzene and its simple derivatives: functionalization of the dihydrosemibullvalene skeleton, 1118–23
XYLOPYRANOSE
Photobromination of carbohydrate derivatives. Part 5. Preparation and reactions of (5S)-1,2,3,4-tetra-O-acetyl-5-bromo-β-D-xylopyranose; a new type of 'double-headed' nucleoside, 2767–73
XYLOPYRANOSYLURACIL
Photobromination of carbohydrate derivatives. Part 5. Preparation and reactions of (5S)-1,2,3,4-tetra-O-acetyl-5-bromo-β-D-xylopyranose; a new type of 'double-headed' nucleoside, 2767–73
XYLYLENE
The formation of complexes between aza-derivatives of crown ethers and primary alkylammonium salts. Part 6. Bis(mono-aza)crown ethers, 586–600
YLIDE
Lythraceous alkaloids. Part 11. Total synthesis of (±)-lythranidine 1066–9
Base catalyzed rearrangements involving ylide intermediates. Part 2. The Stevens [1,2] and [3,2] sigmatropic rearrangements of allylic ammonium ylides, 1450–7
YNAMINE
The chemistry of o-phenylene diisothiocyanate. Part 2. Reactions with enamines, an ynamine and some reactive methylene compounds, 2587–90
ZETHRENE
Synthesis of potentially basic hydrocarbons by sulfur extrusion and/or bis-Wittig reactions. Two syntheses of benz[5,6]indeno[2,1-a]phenalene and a new synthesis of dibenzo[de,mn]naphthacene (zethrene), 2812–17

JOURNAL OF THE CHEMICAL SOCIETY

The scale and cost of present day publication make it necessary to ask authors to co-operate with the Society to the full. To facilitate this the Society will publish a sequence of notices to authors within these covers. It is intended to deal with all major aspects of the preparation, submission, content, and handling of articles intended for the *Journal*. Careful attention to these notices will help authors to have their work published more easily and rapidly.

NOTICES TO AUTHORS—No. 1

General Policy

The *Journal of the Chemical Society* is a medium for reporting selected original and significant contributions to new chemical knowledge. Articles which do not advance knowledge (*e.g.* reviews) will not normally be considered for publication in the *Journal*.

All contributions are judged on the criteria of (i) originality and quality of scientific content and (ii) appropriateness of the length to content of new science. Thus, papers reporting results which would be routinely predicted or result from application of standard procedures or techniques are unlikely to prove acceptable in the absence of other attributes which themselves make publication desirable.

Although short articles are acceptable, the Society strongly discourages fragmentation of a substantial body of work into a number of short publications. Unnecessary fragmentation will be a valid reason for rejection of manuscripts.

The *Journal* is published in five Transactions: Dalton, Inorganic; Perkin I, Organic and Bio-organic; Perkin II, Physical Organic; Faraday I, Physical; Faraday II, Chemical Physics.

Authors are requested to indicate, at the time they submit a typescript, the Transactions for which it is intended. Should this seem unsuitable, the Editor will inform the author.

Conditions Governing Acceptance

Contributions which have appeared or have been accepted for publication with essentially the same content in another journal or which incorporate freely available printed work will not be published in the *Journal* except by permission of the Council. This restriction does not apply to results previously published in materially abbreviated form, as a paper presented at a symposium, as a communication to *Chemical Communications*, as a letter to the Editor of other periodicals, or as a patent.

Contributions are accepted by the Society on the understanding that the authors (*a*) have obtained any necessary authority for publication, and (*b*) will, if requested, surrender their copyright to the Society.

Authors are solely responsible for the factual accuracy of their contributions.

Since the Society reserves the right to retain all typescripts sent to it, authors are advised to keep copies. When contributions have been submitted for publication the authors are not at liberty, save by permission of the Society, to withdraw or delay them or to publish them elsewhere until after publication by the Society.*

Submission of Articles

Typescripts should be addressed to: The Manager Journals, The Royal Society of Chemistry, Burlington House, London W1V 0BN.

Three copies of the typescript (a top copy and two good quality carbon or Xerox copies) are required.

Rapid publication is aided by careful preparation of text and illustrations and strict adherence to the format and conventions of individual Transactions; detailed Instructions to Authors are available on request from the Editor.

Particular attention is drawn to the use of (i) SI units and associated conventions, (ii) I.U.P.A.C. nomenclature for compounds, and (iii) standard methods of literature citation.

Administration

Receipt of a contribution for consideration will be acknowledged immediately by the Editorial Office. The acknowledgement will indicate the paper reference number assigned to the contribution. Authors are particularly asked to quote it on all subsequent correspondence.

* Attention is drawn to the following extract from the Society's Bye-Laws:

84. (i) Every Fellow who, with a view to its publication by the Society, submits a paper or other communication shall by so doing undertake:

(*a*) that his communication has not been published and that he will not permit its publication before it is accepted or declined by the Society, and

(*b*) that if it is accepted for publication the Society shall thereupon become entitled to the copyright therein and that he will, when called on to do so, assign, insofar as he is permitted to do so, to the Society the said copyright, including the sole right to print and publish in any form, in any language, and in any part of the world, the whole or any part of his communication. The Council shall not refuse any reasonable request from any author to reproduce his own work elsewhere in whole or in part.

The attention of every Fellow who submits a paper or other communication for publication shall be drawn to this Bye-Law.

(ii) Any person other than a Fellow who submits any paper or other communication with a view to its publication shall be required to sign an undertaking in the terms set out above.

NOTICES TO AUTHORS—No. 2/1968

Presentation of Papers

Every latitude, consistent with brevity, in the form and style of papers is permitted, and no pattern for either is prescribed. Certain elements are, however, common to all papers, and these are considered.

Organization of Material

Title.—The choice of a title for a paper is of the greatest importance, since it is from the title that the important key-words used in information retrieval are taken. Not only should the title clearly and accurately indicate the content of that paper but also it should be as specific as the content and emphasis of the work permits. Brevity in a title, though desirable, should be balanced against its accuracy and usefulness.

Abbreviations, symbols, and formulae are generally not permitted, and it is usual to spell out terms where necessary.

Reference to the preceding part of a series must be made as the reference (numbered 1) to the title in the form: 'The Chemistry of Vitamin B_{12}. Part VIII.[1] Controlled Potential Reduction of Vitamin B_{12a}.' [Reference to a preceding part in the references is in the form: Part VII, H. A. O. Hill, B. E. Mann, J. M. Pratt, and R. J. P. Williams, *J. Chem. Soc.* (*A*), 1968, 564. If the page number is unknown because the paper has still to be accepted, or is in the press, the paper number should be given.]

Summary.—Every paper for the *Journal* must be accompanied by a summary (50—250 words) setting out briefly and clearly the objects and results of the work. The summary should give a reader a clear idea of what the work has achieved and should be *independent* of the main text. This last point is of particular importance in connection with the names of compounds which, although they may be accompanied by a number which refers to a displayed formula in the body of the text, must be comprehensible without reference to this formula. Thus,

> Apetalactone, a new triterpene lactone isolated from *Calophyllum apetalum* Willd. has been shown to be 4,28-dihydroxy-3,4-secofriedelan-3-oic acid lactone (IIa).
>
> or
>
> Reaction of sodium hydride with ω-hydroxyalkyltriphenylphosphonium salts $Ph_3P^+[CH_2]_nOH\ X^-$ (I) has been investigated. The salt (I; $n = 1$, X = 1) gave triphenylphosphine and formaldehyde. The salt (I; $n = 2$, X = 1) gave triphenylphosphine oxide and ethylene. Similar reactions were carried out with ω-hydroxyalkyltriphenylarsonium (XIV) and ω-hydroxyalkyldimethylphenylammonium (XV) salts.

The summary should concern only the main subject of the work and its main conclusions; details of an involved argument or synthesis should not be included and, although classes of compounds prepared or discussed should be given rather than a list of compounds, key compounds in the work should be referred to.

Introduction.—This should give clearly and briefly, with relevant references, both the nature of the problem under investigation and its background.

Results and Discussion.—It is usual for the results to be presented first, and for them to be followed by a discussion of their significance. Only relevant results should be presented, and figures, tables, and equations should be used only for purposes of clarity and brevity. Data must not be reproduced in more than one form, *e.g.* in both figures and tables.

Experimental Section.—Descriptions of experiments should be given in detail sufficient to enable experienced experimental workers to repeat them; the degree of purity of materials should be given, as should the relative quantities used. Descriptions of established procedures are unnecessary. Standard techniques and methods used throughout the work should be stated at the beginning of the section. Apparatus should be described only if it is non-standard; commercially available instruments are referred to by their stock numbers (*e.g.* Perkin-Elmer 137 or Unicam SP 500 spectrophotometers). The accuracy of primary measurements should be stated. Unexpected hazards encountered during the experimental work should be noted. The detailed treatment of the Experimental section is dealt with in a forthcoming Notice to Authors.

Acknowledgements.—Contributors, other than co-authors, are acknowledged in a separate paragraph at the end of the paper; acknowledgements should be as brief as possible. Titles, Mr., Mrs., Miss, Dr., Professor, *etc.*, are given; degrees are not given. Organizations which operate on a commercial basis are not acknowledged.

Bibliographic References.—These are given on a separate sheet at the end of the manuscript and are referred to in the text by superior roman numerals. They must be distinguished from footnotes which are given at the bottom of the page to which they refer; they are referred to by an asterisk (*), dagger (†), *etc.* Bibliographic references and footnotes are the subject of Notice No. 3.

General Detail

Type Size.—It should be noted that since the Experimental section and the results are printed in smaller type than the theoretical part, division between the two should be clear-cut and frequent alternation is not advisable.

Brevity.—Because of the large volume of work submitted for publication, brevity in the presentation of papers is essential and, for this reason, certain tendencies are discouraged; these are as follows:

(*a*) Unnecessary division of work into separate parts of a series. Papers are in no way discouraged solely on grounds of length.
(*b*) Submission of fragmentary work when this can be included in a larger communication.
(*c*) Historical introductory paragraphs in cases when a simple statement of the accepted present position suffices.
(*d*) Undue elaboration of hypotheses.
(*e*) Over-detailed and verbose exposition of ideas.
(*f*) Excessive use of diagrams, for example, straight-line plots that can be adequately expressed as an equation together with, if necessary, a table of deviations.
(*g*) Duplication of data as between text, tables, and figures, *etc.*

(*h*) Details of the preparation of simple derivatives such as esters, ethers, semicarbazones, *etc.*, and slight variations of essentially the same technique. (Unless the conditions are critical, quantities are superfluous, and only an indication of reagents and/or conditions is required.)

Spelling.—Standard English spelling is used (*Oxford English Dictionary*), although latitude with respect to alternative spellings for certain words is allowed. Where one form or the other of a particular spelling is adopted it should be used consistently throughout a paper.

Punctuation.—Although punctuation follows standard English practice, the following conventions are observed:

(*a*) A comma is placed before ' and ' or ' or ' in a series such as ' oxygen, sulphur, and selenium ' or ' $\lambda_{max.}$ 237, 295, and 343 nm.'

(*b*) Parentheses, square brackets, and braces are used, as necessary, in that order, *i.e.* {[( )]}.

(*c*) When a word is followed by a punctuation mark the parenthetical phrase must be inserted before the latter, *e.g.* ' m.p. 234° (decomp.),' and not ' m.p. 234°, (decomp.)'.

(*d*) A colon is used to separate a ratio, as in 1 : 20 —not a solidus 1/20.

(*e*) Parenthetical expressions of the same physical quantity in different units are separated by a comma (3·9 g, 0·1 mol) (30 ml, 1 mol); expressions of different physical quantities are separated by a semicolon (2·9N; 30 ml) (*d* 0·88; 8 ml).

Hyphenation.—Hyphens are used for two purposes: to divide and to compound.

Division. It is common practice to divide words, particularly when in a sequence, when one part is common to several of the words; in such cases, the hyphen, representing the point of attachment to the common part, is always inserted, *e.g.* ' the chloro-, bromo-, and fluoro-naphthacenes,' ' the *o*-, *m*-, or *p*-nitrotoluenes,' or ' the oxo-naphthalenes and -naphthacenes.' It is not good practice, however, to detach both a common prefix and a common suffix in a series, *e.g.* ' the dihydroxy- naphthalene- and phenanthrene-diones,' since confusion can arise.

' Sections ' of class names such as diazo-ketone, alkyl-diamine, epoxy-nitro-sulphone, *etc.*, are linked by hyphens.

It is also Society usage to insert a hyphen after a prefix which ends in a vowel or y; the hydroxy-group, the aza-function, the carboxy-compounds, the nitro-derivatives, but the methyl group (note that hydroxy, acetoxy, carboxy, ethoxy, and methoxy are used and not hydroxyl, acetoxyl, carboxyl, ethoxyl, and methoxyl).

It is customary to separate a pair of the same letter when these letters (in the same fount) would not naturally fall together, *e.g.* butyl-lithium, iodo-octane.

Compounding. A hyphen is often necessary when words are compounded to form a single modifying adjective to precede the noun being modified, thus: ' a melting-point determination ' or ' a free-radical chain mechanism.' A hyphen is not needed when adverbs are compounded, as in ' an electrically heated oven,' or for two-word chemical names such as ' nitric acid solution.'

Miscellaneous uses of hyphens. Hyphens are used to set apart numbers, configurational letters, Greek letters, and italicized prefixes: 1,2,5-trimethylcyclohexane, D-*gluco*-hexose, *s*-trinitrobenzene, β-chlorophenethylbenzene, tri-μ-carbonyl-bis(tricarbonyliron), and 3-methylpent-*trans*-2-ene.

Use of Italics.—As described below, italics are indicated in a typescript by single underlining. Particular attention should be paid to the following uses.

(*a*) Foreign words and phrases and Latin abbreviations are given in italics: *e.g.*, *in toto*, *in vivo*, *ca.*, *cf.*, *i.e.*, *etc.*

(*b*) In the names of chemical compounds or radicals italics are used for prefixes (other than numerals or symbols) when they define the position of named substituents, or when they define stereoisomers: other prefixes are printed in roman. (*Note:* Initial capital letters are not to be used with italic prefixes or single-letter prefixes: full points are not to be associated with letter prefixes.)

o-, *m*-, and *p*-nitrotoluenes, but *ortho*-, *meta*-, and *para*-compounds (*o*-, *m*-, and *p*- are used only with specific names; *ortho*-, *meta*-, and *para*- are used with classes), *s*-trinitrobenzene, *NN*-dimethylaniline, *trans*- and *cis*-hexane-1,2-diol, *gem*- and *vic*-diols, benzil *anti*-oxime, 3-*O*-methyl-L-*glycero*-tetrulose.

At the beginning of a sentence the first roman letter after the prefix is capitalized: ' D-*glycero*-D-*gluco*-Heptose was subjected . . . ' and ' β-*p*-Tolylchalcone gave . . . '

(*c*) The scientific names of genera, species, and varieties are italicized.

(*d*) In references to periodicals their names or abbreviations are set in italics.

Note: Greek letters are not italicized, and should not therefore be underlined in typescripts.

Headings.—(*a*) Main sections (Experimental, Discussion, *etc.*): side-heading, small capitals, no final fullstop.

(*b*) Main side-heading: italics, initial capital letter for each noun and adjective, final fullstop and dash.

(*c*) Subsidiary side-heading: italics, first initial capital only, final fullstop but no dash.

(*d*) Further subdivision: by italic (*a*), (*b*), *etc.* (no following fullstop), and finally (i), (ii), *etc.* If (a), (b), *etc.* are used in front of a subsidiary side-heading, then for contrast these letters are not italicized.

Letters and prefixes which are ordinarily printed in italics are transferred for contrast into roman type in italicized phrases (see example below, where *O*-alkyl becomes O-*alkyl*).

Physicochemical symbols, however, remain in their prescribed form, and numerals and Greek letters are not italicized.

Examples:

EXPERIMENTAL

Preparation of Aliphatic Aldoximes and Ketoximes.—Acetoxime O-*alkyl ethers.* (*a*) Acetoxime (100 g) was dissolved . . .

Density (*d*) *of the Alcohol at* 295 K.—The series of aliphatic alcohols . . .

Note: In the above examples it should be noted that the type of print required to indicate italics, capitals, small capitals, *etc.* is shown by underlining; this convention must be strictly adhered to, *i.e.*

Single underlining for *italic* type
Double underlining for SMALL CAPITALS
Treble underlining for ORDINARY CAPITALS
Wavy underlining for **bold black** type

Bibliographic References and Footnotes

A clear distinction is made between bibliographic references and footnotes. The latter are used to present material which, if included in the body of the text, would disrupt the flow of the argument but which is, nevertheless, of importance in qualifying or amplifying the textual material. Such footnotes are referred to with the following symbols: *, †, ‡, §, ¶, ‖, *etc.* [*Note:* Since an asterisk is used to indicate the author to whom correspondence should be addressed, its use early on in a paper is not advised; a dagger (†) is preferred.]

Bibliographic References.—Reference to the source of statements in the text is made by use of *superior numerals* at the appropriate place. The references themselves are given as footnotes at the bottom of the corresponding page in the final printed text. It is thus *essential* that bibliographic references are numbered in the order in which they will appear.

When citation of a paper is repeated the numeral previously given to that reference is to be used also at the second citation; the footnote is not repeated.

The position of the superior numeral should be chosen with care, particularly when it does not follow an author's name. If placed adjacent to punctuation, the numeral should normally be placed after the punctuation mark, *e.g.* 'This compound was shown to be the dienone,[3] which . . . '. It may be necessary to modify this rule, however, to avoid confusion, thus: ' In this way the method was found to be suitable for lead[3], tin[3], bismuth[4], and mercury[5].'

Particular care is necessary where a reference number is likely to be confused with a superscript numeral indicating a power index: '. . . which gave a value of 2·3 cm^3 . . . ' should be written as '. . . which gave a value[3] of 2·3 cm ' or '. . . which gave a value of 2·3 cm (ref. 3) '.

Since it is usually difficult to print a table in a given position in the text, references within the table are best dealt with by taking the individual references into the printed footnotes to the tables and using a new reference number sequence therein. Should the references cited in the tables appear much earlier in the text, these earlier reference numbers may be used.

Journals. New instructions for the abbreviation of journal titles will be issued early in 1980. At the present time where authors have difficulty in deciding on a suitable journal abbreviation they are invited either to write directly to the Editors or to consult current copies of the *Journal.*

Books. Titles of books are cited in quotation marks, in upright letters, and the author(s), title, publisher, town, date (or edition, if more than one has been published), and page number (if required) must be given in that order:

C. J. M. Stirling, ' Radicals in Organic Chemistry,' Oldbourne Press, London, 1965, p. 69.

T. J. Suen, in ' Polymer Processes,' ed. C. E. Schildknecht, Interscience, New York, 1956, vol. X, p. 295.

Patents. Patents should be indicated in the form: B.P. 367,450, 367,455-7. U.S.P. 1,171,230. G.P. 436,112-4. Jap.P. 20,101. Dates are indicated thus: B.P. 666,776/1956. Patents which are applied for must always be given a year, *e.g.* B.P. Appl. 102/1968.

Reports and Bulletins, etc.

R. A. Allen, D. B. Smith, and J. E. Hiscott, ' Radioisotope Data,' UKAEA Research Group Report AERE-R 2038, H.M.S.O., London, 1961.

' Collected Papers on Methods of Analysis for Uranium and Thorium,' Geological Survey Bulletin 1006, U.S. Government Printing Office, Washington D.C., 1954.

Material presented at meetings.

N. N. Greenwood, Abstracts, Anniversary Meeting of the Chemical Society, Glasgow, 1965, C1.

N. S. Anderson and D. A. Rees, in ' Proceedings of the Vth International Seaweed Symposium,' ed. E. G. Young and J. L. McLachlan, Pergamon Press, Oxford, 1966, p. 405.

Theses.

A. D. Mount, Ph.D. Thesis, University of London, 1967.

Reference to unpublished material. For material presented at a meeting, congress, or before a society, *etc.*, but not published, the following form is used:

[1] A. R. Jones, presented in part at the XXth Congress of the International Union of Chemistry, Paris, September, 1960.

For material accepted for publication, but not yet published, the following form is used:

[2] A. R. Jones, *J. Amer. Chem. Soc.*, in the press.

If the paper has been submitted to the Society, the paper number should be given:

[3] A. R. Jones, *J. Chem. Soc.* (*A*), in the press (8/556).

For material submitted for publication but not yet accepted the following form is used:

[4] A. R. Jones, submitted for publication in *Angew. Chem.*

For personal communications the following form is used:

[5] G. B. Ball, personal communication. (*Note:* the form, G. B. Ball, private communication, is inappropriate.)

If material is to be published but has yet to be submitted the following form is used:

[6] Unpublished data.

Names.—The names and initials of all authors are always given in the reference footnote; they must not be replaced by the phrase *et al.* This does not prevent some, or all, of the names being mentioned at their first citation in the cursive text: initials are not necessary in the text.

For Chinese and Spanish authors all names should be given as in the original, since the patronymic is not always given last in these languages. If co-authors are to be collectively cited, as in 'Smith and his co-workers' or 'Smith *et al.*,' the latter form is inappropriate unless the individual name 'Smith' appears first among the authors named in the original.

Composite References.—Whenever possible, composite references should be used rather than a series of individual references. The style for composite references is as follows:

[1] A. B. Jones, *J. Chem. Soc.* (*A*), 1967, 234.

[2] A. B. Jones, *J. Chem. Soc.* (*A*), 1966, 123; 1967, 234.

[3] A. B. Jones, *J. Chem. Soc.* (*A*), 1966, 123; *J. Amer. Chem. Soc.*, 1956, 78, 1234.

[4] A. B. Jones, *J. Chem. Soc.*, 1956, 234; A. B. Jones and C. D. Brown, *J. Chem. Soc.* (*B*), 1967, 234, 1077; 1968, 599.

[5] A. B. Jones, *J. Amer. Chem. Soc.*, 1956, 78, 1234; A. B. Jones and C. D. Brown, *ibid.*, 1957, 79, 567; A. B. Jones and E. F. Green, *ibid.*, p. 999.

If only one paper from a composite reference is required for citation later, then two numbers may be assigned to the first citation (*e.g.* Jones[1,2]); alternatively, long composite references may be divided by letters, *e.g.*:

(*a*) A. B. Jones, *J. Chem. Soc.* (*A*), 1954, 467; (*b*) A. B. Jones and C. D. Brown, *J. Chem. Soc.* (*B*), 1967, 234.

A. B. Jones, *J. Chem. Soc.* (*A*), (*a*) 1953, 267; (*b*) 1954, 1742; (*c*) *etc.*

A composite reference may cite a previous reference in the form:

[12] A. B. Jones, *J. Chem. Soc.*, 1956, 234; C. D. Brown, ref. 5.

(*Note: ibid.* is used only within a given reference and not to refer from one reference number to another: the abbreviated title for the journal should be repeated for separate reference numbers.)

Idem, loc. cit., and *op. cit.* are not used in references.

NOTICES TO AUTHORS—No. 4/revised 1979

Journal Abbreviations

The Publications and Information Board has decided that the style of journal abbreviations to be used in The Society's publications shall in future be that defined by the Chemical Abstracts Service in CASSI.* The abbreviations listed in CASSI are based upon internationally recognised systems.

As from January 1981, the CASSI system will be the only one used in The Society's publications. The following list of CASSI-style abbreviations covers most of the journals received in The Society's library. It is not, of course, a full list; CASSI (1974 edition) plus its quarterly supplements run to more than 2000 pages.

If you cannot locate an authoritative abbreviation for a journal, and if it is not obvious how the title should be abbreviated, please cite the full title.

This change in style of abbreviations does not involve any change in the order in which the bibliographic details should be cited; they should still be given in the order: YEAR, VOLUME, PAGE.

Acc. Chem. Res.
Acta Acad. Aboensis, Ser. B
Acta Biochim. Biophys. Acad. Sci. Hung.
Acta Biochim. Iran.
Acta Biochim. Pol.
Acta Chem. Scand., Ser. A
Acta Chem. Scand., Ser. B
Acta Chim. Acad. Sci. Hung.
Acta Crystallogr.
Acta Metall.
Acta Phys. Acad. Sci. Hung.
Acta Phys. Chem.
Acta Vitaminol. Enzymol.
Adv. Act. Anal.
Adv. Alicyclic Chem.
Adv. Anal. Chem. Instrumen.
Adv. Carbohydr. Chem. Biochem.
Adv. Catal.
Adv. Chem. Phys.
Adv. Chromatogr.
Adv. Colloid Interface Sci.
Adv. Enzymol. Relat. Areas Mol. Biol.
Adv. Free-Radical Chem.
Adv. Heterocycl. Chem.
Adv. Inorg. Chem. Radiochem.
Adv. Lipid Res.
Adv. Macromol. Chem.
Adv. Magn. Reson.
Adv. Molten Salt Chem.
Adv. Organomet. Chem.
Adv. Org. Chem.
Adv. Photochem.
Adv. Phys. Org. Chem.
Adv. Protein Chem.
Adv. Quantum Chem.
Adv. Struct. Res. Diffr. Methods
Afinidad
Agric. Biol. Chem.
Agrokem. Talajtan
AIChE J.
Ambix
Am. J. Pharm.
Am. J. Sci.
An. Acad. Bras. Cienc.
Anal. Biochem.
Anal. Chem.
Anal. Chim. Acta
Anal. Lett.
Analusis
Analyst (London)
An. Bromatol.
Angew. Chem.
Angew. Chem., Int. Ed. Engl.
Angew. Makromol. Chem.
Ann. Acad. Sci. Fenn., Sect. A11, Chem.
Ann. Chim. (Paris)
Ann. Chim. (Rome)
Ann. Endocrinol.
Ann. N.Y. Acad. Sci.
Ann. Pharm. Fr.
Ann. Soc. Sci. Bruxelles
Ann. Univ. Mariae Curie-Sklodowska, Sect. AA
Annu. Rep. Anal. At. Spectrosc.
Annu. Rep. Med. Chem.
Annu. Rep. Prog. Chem., Sect. A, Phys. Inorg. Chem.
Annu. Rep. Prog. Chem., Sect. B.
Annu. Rev. Biochem.
Annu. Rev. Ind. Eng. Chem.
Annu. Rev. NMR Spectrosc.
Annu. Rev. Phys. Chem.
Appl. Spectrosc.
Arch. Pharm. Chemi, Sci. Ed.
Arch. Pharm. (Weinheim, Ger.)
Arm. Khim. Zh.
Arzneim.-Forsch.
Aspects Homogeneous Catal.
At. Absorpt. Newsl.
Aust. J. Biol. Sci.
Aust. J. Chem.
Aust. J. Phys.
Azerb. Khim. Zh.

Ber. Bunsenges. Phys. Chem.
Biochem. Biophys. Res. Commun.
Biochem. Educ.
Biochemistry
Biochemistry (Engl. Transl.)
Biochem. J.
Biochem. Pharmacol.
Biochem. Prep.
Biochem. Soc. Trans.
Biochim. Biophys. Acta
Biochimie
Bioftizika
Bioinorg. Chem.
Biokhimiya
Bioorg. Chem.
Bioorg. Khim.
Biopolymers
Biotechnol. Bioeng.
Bochu-Kagaku
Boll. Soc. Ital. Biol. Sper.
Bol. Soc. Quim. Peru
Br. Corros. J.
Br. J. Pharmacol.
Br. Polym. J.
Br. Polym. J.
Bul. Inst. Polith. Iasi.
Bull. Acad. Pol. Sci., Ser. Sci. Chim.
Bull. Acad. Sci. USSR, Div. Chem. Sci.
Bull. Chem. Soc. Jpn.
Bull. Inst. Chem. Res., Kyoto Univ.
Bull. Sci., Cons. Acad. Sci. Arts RSF Yougosl., Sect. A
Bull. Soc. Chim. Belg.
Bull. Soc. Chim. Fr.
Bunseki Kagaku

Can. J. Biochem.
Can. J. Chem.
Can. J. Chem. Eng.
Can. J. Pharm. Sci.
Can. J. Phys.
Can. J. Spectrosc.
Carbohydr. Res.
Carbon
Catal. Rev.
Cellul. Chem. Technol.
Cereal Chem.
Cesk. Farm.
Chelates Anal. Chem.
Chem. Ags (London)
Chem. Anal. (Warsaw)
Chem. Ber.
Chem. Br.
Chem. Can.
Chem. Chron.
Chem. Econ. Eng. Rev.
Chem. Eng. Commun.
Chem. Eng. J. (Lausanne)
Chem. Eng. (London)
Chem. Eng. News
Chem. Eng. Progr.
Chem. Eng. Progr., Monogr. Ser.
Chem. Eng. Progr., Symp. Ser.
Chem. Eng. Sci.
Chem. Erde
Chem. Heterocycl. Compd. (Engl. Transl.)
Chem. Ind. (Dusseldorf)
Chem. Ind. Int. (Engl. Transl.)
Chem. Ind. (London)
Chem.-Ing.-Tech.
Chem. Listy
Chem. Nat. Compd. (Engl. Transl.)
Chem. N. Z.
Chem. Pharm. Bull.
Chem. Phys.
Chem. Phys. Carbon
Chem. Phys. Lett.
Chem. Phys. Lipids
Chem. Prum.
Chem. Rev.
Chemia
Chem. Ser.
Chem. Soc. Rev.
Chem. Soc., Spec. Publ.
Chem. Stosow.
Chem. Tech. (Leipzig)
Chem. Technol.
Chem. Week
Chem. Weekbl.
Chem.-Zig.
Chem. Zvesti
Chim. Acta Turc.
Chim. Actual.
Chimia
Chim. Ind. (Milan)
Chromatographia
Clin. Biochem.
Clin. Chem. (Winston-Salem, N. C.)
Clin. Chim. Acta
Collect. Czech. Chem. Commun.
Colloid J. USSR (Engl. Transl.)
Colloid Polym. Sci.
Combust. Flame
Commun. Fac. Sci. Univ. Ankara
Commun. R. Soc. Edinburgh, Phys. Sci.
Comput. Chem.
Coord. Chem. Rev.
Corrosion Sci.
Cosmet. Perfum.
CRC Crit. Rev. Biochem.
C.R. Hebd. Seances Acad. Sci.
Crit. Rev. Anal. Chem.
Croat. Chem. Acta
C.R. Seances Soc. Biol. Ses Fil.
Curr. Sci.

DEFAZET-Dtsch. Farben-Z.
Denki Kagaku Oyobi Kogyo Butsuri Kagaku
Dokl. Akad. Nauk Arm. SSR
Dokl. Akad. Nauk SSSR
Dokl. Bolg. Akad. Nauk
Dokl. Chem. (Engl. Transl.)
Dokl. Chem. Technol. (Engl. Transl.)
Dokl. Phys. Chem. (Engl. Transl.)
Dopo. Ahad. Nauk Ukr. RSR, Ser. B
Double-Liaison
Dtsch. Lebensm.-Rundsch.
Dyn. Mass Spectrom.

Educ. Chem.
Egypt. J. Chem.
Electroanal. Chem.
Electrochim. Acta
Elektrokhimiya
Endeavour
Environ. Sci. Technol.
Erdoel Kohle, Erdgas, Petrochem. Brennst.-Chem.
Essays Biochem.
Eur. J. Biochem.
Eur. Polym. J.
Experientia

Faraday Discuss. Chem. Soc.
Faraday Symp. Chem. Soc.
FEBS Lett.
Fermentn. Spirt. Prom.
Fette, Seifen. Anstrichm.
Finn Chem. Lett.
Fiz.-Khim. Mekh. Mater.
Fiz. Met. Metalloved.
Flavour Ind.
Fluorine Chem. Rev.
Food Manuf.
Fortschr. Chem. Org. Naturst.
Fortschr. Hochpolym.-Forsch.
Fresenius Z. Anal. Chem.
Fuel

Gazz. Chim. Ital.
Gen. Cytochem. Methods
Geokhimiya
Ger. Chem. Eng. (Engl. Transl.)
Gidrokhim. Mat.
Glas. Hem. Drus., Beograd
Glass Technol.
G. Microbiol.
God. Vissh. Khimikotekhnol. Inst., Sofia
Grasas Aceites (Seville)

Helv. Chim. Acta
High Energy Chem. (Engl. Transl.)
Hist. Stud. Phys. Sci.
Hoppe-Seyler's Z. Physiol. Chem.
Hua Hsueh
Hua Hsueh Hsueh Pao
Hua Hsueh Tung Pao
Hung. J. Ind. Chem.
Hwahak Kwa Kongop Ui Chinbo

Ind. Eng. Chem., Fundam.
Ind. Eng. Chem., Process. Res. Dev.
Ind. Eng. Chem., Prod. Res. Dev.
Indian J. Agric. Chem.
Indian J. Biochem. Biophys.
Indian J. Chem., Sect. A
Indian J. Chem., Sect. B.
Indian J. Pure Appl. Phys.
Ind. Lab. (Engl. Transl.)
Inorg. Chem.
Inorg. Chim. Acta
Inorg. Mater. (Engl. Transl.)
Inorg. Nucl. Chem. Lett.
Inorg. Synth.
Int. Chem. Eng.
Int. Flavours Food Addit.
Int. J. Appl. Radiat. Isot.
Int. J. Chem. Kinet.
Int. J. Mass Spectrom. Ion Phys.
Int. J. Pept. Protein Res.
Int. J. Quantum Chem.
Int. J. Quantum Chem., Symp.
Int. J. Sulfur Chem.
Int. J. Vitam. Nutr. Res.
Intra-Sci. Chem. Rep.
Ion. Chem.
Ion Exch. Solvent Extr.
Isr. J. Chem.
Istanbul Univ. Fen Fak. Mecm., Seri C
Ital. J. Biochem.

* Chemical Abstracts Service Source Index.

Hyun Kenkyusho Nempo
Izv. Akad. Nauk Kaz. SSR, Ser. Khim.
Izv. Akad. Nauk SSSR, Neorg. Mater.
Izv. Akad. Nauk SSSR, Ser. Khim.
Izv. Akad. Nauk Turkm. SSR, Ser. Fiz. -Tekh., Khim. Geol. Nauk
Izv. Sib. Otd. Akad. Nauk SSSR, Ser. Khim. Nauk

J. Agric. Food Chem.
J. Am. Chem. Soc.
J. Am. Leather Chem. Assoc.
J. Am. Oil Chem. Soc.
J. Anal. Chem. USSR (Engl. Transl.)
J. Appl. Chem. Biotechnol.
J. Appl. Chem. USSR (Engl. Transl.)
J. Appl. Crystallogr.
J. Appl. Polym. Sci.
J. Assoc. Off. Anal. Chem.
J. Assoc. Public Anal.
J. Biochem. (Tokyo)
J. Biol. Chem.
J. Carbohydr., Nucleosides, Nucleotides
J. Catal.
J. Chem. Educt.
J. Chem. Eng. Data
J. Chem. Inf. Comput. Sci.
J. Chem. Phys.
J. Chem. Res. (M)
J. Chem. Res. (S)
J. Chem. Soc., Chem. Commun.
J. Chem. Soc., Dalton Trans.
J. Chem. Soc., Faraday Trans. 1
J. Chem. Soc., Faraday Trans. 2
J. Chem. Soc., Perkin Trans. 1
J. Chem. Soc., Perkin Trans. 2
J. Chem. Thermodyn.
J. Chim. Phys. Phys. Chim. Biol.
J. Chin. Chem. Soc. (Taipei)
J. Chromatogr.
J. Chromatogr. Sci.
J. Colloid Interface Sci.
J. Coord. Chem.
J. Cryst. Mol. Struct.
J. Dec.
J. Electroanal. Chem. Interfacial Electrochem.
J. Electrochem. Soc.
J. Electrochem. Soc. India
J. Fac. Sci. Univ. Tokyo
J. Fluorine Chem.
J. Food Sci.
J. Franklin Inst.
J. Gen. Chem. USSR (Engl. Transl.
J. Hazard. Mater.
J. Heterocycl. Chem.
J. Histochem. Cytochem.
J. Indian Chem. Soc.
J. Indian Inst. Sci.
J. Inorg. Nucl. Chem.
J. Inst. Brewing, London
J. Inst. Chem., Calcutta
J. Inst. Fuel
J. Labelled Comp. Radiopharm.
J. Less-Common Met.
J. Lipid Res.
J. Liq. Chromatogr.
J. Lumin.
J. Macromol. Sci., Chem.
J. Macromol. Sci., Phys.
J. Magn. Reson.
J. Med. Chem.
J. Mol. Biol.
J. Mol. Catal.
J. Mol. Spectrosc.
J. Mol. Struct.
J. Neurochem.
J. Nonmet. Semiconduct.
J. Oil Colour Chem. Assoc.
J. Organomet. Chem.
J. Org. Chem.
J. Org. Chem. USSR (Engl. Transl.)
J. Pharmacol.
J. Pharmacol. Exp. Ther.
J. Pharm. Pharmacol.
J. Pharm. Sci.
J. Photochem.
J. Phys. Chem.
J. Phys. Chem. Ref. Data
J. Phys. Chem. Solids
J. Phys. E
J. Polym. Sci., Macromol. Rev.
J. Polym. Sci., Polym. Chem. Ed.
J. Polym. Sci., Polym. Phys. Ed.
J. Polym. Sci., Polym. Symp.
J. Prakt. Chem.
J. Quant. Spectrosc. Radiat. Transfer
J. Radioanal. Chem.
J. Raman Spectrosc.
J. Res. Inst. Catal., Hokkaido Univ.
J. Res. Nat. Bur. Stand., Sect. A
J. Sci. Food Agric.
J. Sci. Hiroshima Univ., Ser. A11, Phys., Chem.
J. Sci. Ind. Res.
J. Soc. Dyers Colour.
J. Soc. Leather Technol. Chem.
J. Solid State Chem.
J. Solution Chem.
J. Steroid Biochem.
J. Struct. Chem. (Engl. Transl.)
J. Text. Inst.
J. Therm. Anal.
Justus Liebigs Ann. Chem.

Kagaku Kogaku
Kanazawa Daigaku Yakugakubu Kenkyu Nempo
Kem. -Kemi
Kem. Tidskr.
Khim. Geterotsikl. Soedin.
Khim. Ind. (Sofia)
Khim. Neft. Mashinostr.
Khim. Prir. Soedin.
Khim. Prom. (Moscow)
Khim. Volokna
Khim. Vys. Energ.
Kinet. Catal. (Engl. Transl.)
Kinet. Katal.
Kjemi
Kobunshi Kagaku
Kogyo Kagaku Zasshi
Kolloidn. Zh.
Koord. Khim.
Kristallografiya
Kunstst. -Plast. (Solothurn, Switz.)

Lab. Pract.
Latv. PSR Zinat. Vestis, Kim. Ser.
Lipids

Macromolecules
Macromol. Synth.
Magy. Kem. Foly.
Magy. Kem. Lapja
Makromol. Chem.
Manuf. Chem. Aerosol News
Metall. Vlaam. Chem. Ver.
Mekh. Polim.
Mem. Fac. Sci. Kyushu Univ., Ser. C
Mem. Inst. Protein Res., Osaka Univ.
Mem. Inst. Sci. Ind. Res., Osaka Univ.
Metallev Chem. J. (Engl. Transl.)
Methods Biochem. Anal.
Methods Free-Radical Chem.
Microchem. J.
Mikrochim. Acta
Mol. Cell. Biochem.
Mol. Cryst. Liq. Cryst.
Mol. Phys.
Monatsh. Chem.

Nahrung
Nature (London)
Naturwissenschaften
Neftekhimiya
Nippon Kagaku Kaishi
Nippon Nogei Kagaku Kaishi
Nouv. J. Chim.

Oesterr. Chem. -Ztg.
Online (Weston, Conn.)
Orbital
Org. Magn. Reson.
Org. Mass Spectrom.
Org. Prep. Proced. Int.
Org. React.
Org. React. (USSR)
Org. React. Mech.
Org. Synth.

Paint Manuf.
Pak. J. Sci.
Pak. J. Sci. Ind. Res.
Pak. J. Sci. Res.
Perindia Polytech., Chem. Eng.
Pestic. Sci.
Philos. Mag.
Philos. Trans. R. Soc. London, Ser. A
Phosphorus Sulfur
Photochem. Photobiol.
Phys. Chem. Glasses
Phys. Rev.
Phys. Rev. Lett.
Phys. Scr.
Phytochemistry
Pigm. Resin Technol.
Pis'ma Zh. Eksp. Teor. Fiz.
Plast. Polym.
Pol. J. Chem.
Polym. Age
Polymer
Polym. Sci. USSR (Engl. Transl.)
Postepy Biochem.
Prikl. Biokhim. Mikrobiol.
Priroda (Moscow)
Proc. Am. Soc. Brew. Chem.
Proc. Anal. Div. Chem. Soc.
Process Biochem.
Processing
Proc. Indian Acad. Sci., Sect. A
Proc. Indian Acad. Sci., Sect. B
Proc., K. Ned. Akad. Wet., Ser B
Proc., K. Ned. Akad. Wet., Ser C
Proc. Natl. Acad. Sci., India, Sect. A
Proc. Natl. Acad. Sci. USA
Proc. R. Soc. Edinburgh, Ser. A
Proc. R. Soc. London, Ser. A
Proc. R. Soc. London, Ser. B
Proc. Soc. Exp. Biol. Med.
Prog. Bioorg. Chem.
Prog. Colloid Polym. Sci.
Prog. Inorg. Chem.
Prog. Med. Chem.
Prog. Nucleic Acid Res. Mol. Biol.
Prog. Nucl. Magn. Reson. Spectrosc.
Prog. Phys. Org. Chem.
Prog. React. Kinet.
Prog. Solid State Chem.
Prog. Stereochem.
Prog. Surf. Membr. Sci.
Prog. Surf. Sci.
Prog. Thin-Layer Chromatogr. Relat. Methods
Przem. Chem.
Pure Appl. Chem.
Pyrethrum Post

Quad. Ing. Chim. Ital.
Quim. Nova

Radiat. Phys. Chem.
Radiat. Res.
Radiochim. Acta
Radiokhimiya
React. Kinet. Catal. Lett.
Recent Dev. Chem. Nat. Carbon Compd.
Recent Prog. Horm. Res.
Recherches
Recl. Trav. Chim. Pays-Bas
Rend. Accad. Sci. Fis. Mat., Naples
Rep. Prog. Appl. Chem.
Residue Rev.
Rev. Anal. Chem.
Rev. Asoc. Bioquim. Argent.
Rev. Chim. (Bucharest)
Rev. Phys. Chem. Jpn.
Rev. Port. Quim.
Rev. Roum. Biochim.
Rev. Roum. Chim.
Rev. Sci. Instrum.
Rev. Soc. Quim. Mex.
Ric. Sci.
Rubber Chem. Technol.
Russ. Chem. Rev. (Engl. Transl.)
Russ. J. Inorg. Chem. (Engl. Transl.)
Russ. J. Phys. Chem. (Engl. Transl.)

S. Afr. J. Chem.
Sankyo Kenkyusho Nempo
Sb. Ved. Pr., Vys. Sk. Chemickotechnol., Pardubice
Sch. Sci. Rev.
Schweiz. Apoth. -Ztg.
Sci. Cult.
Science
Sci. Pap. Coll. Gen. Educ., Univ. Tokyo
Sci. Pap. Inst. Phys. Chem. Res. (Jpn.)
Sci. Rep. Res. Inst., Tohoku Univ.
Sci. Rep. Tohoku Univ., Ser. 1
Sci. Sinica
Sel. Annu. Rev. Anal. Sci.
Semicond. Insul.
Sep. Purif. Methods
Sep. Sci. Technol.
Soap. Cosmet., Chem. Spec.
Sov. Electrochem. (Engl. Transl.)
Sov. J. Bioorg. Chem. (Engl. Transl.)
Sov. J. Coord. Chem. (Engl. Transl.)
Sov. Phys. -Crystallogr. (Engl. Transl.)
Sov. Radiochem. (Engl. Transl.)
Spectrochim. Acta, Part A
Spectrochim. Acta, Part B
Spectrosc. Lett.
Steroids
Steroids Lipids Res.
Struct. Bonding (Berlin)
Stud. Univ. Babes-Bolyai, Ser. Chem.
Sub-Cell. Biochem.
Surf. Colloid Sci.
Surf. Sci.
Synth. Commun.
Synthesis
Synth. Proced. Nucleic Acid Chem.
Synth. React. Inorg. Metal-Org. Chem.

Tarkan Hurkak Hozzki
Talanta
Technol. Rep. Osaka Univ.
Teor. Eksp. Khim.
Teor. Osn. Khim. Tekhnol.
Tetrahedron
Tetrahedron Lett.
Text. Inst. Ind.
Text. Res. J.
Theor. Exp. Chem. (Engl. Transl.)
Thermochim. Acta
Tin Its Uses
Tokyo Kogyo Shikensho Hokoku
Top. Curr. Chem.
Top. Stereochem.
Trans. Inst. Chem. Eng.
Trans. Inst. Met. Finish.
Transition Met. Chem.
Trans. J. Br. Ceram. Soc.
Trends Biochem. Sci.
Tr. Inst. Elektrokhim., Ural. Nauchn. Tsentr. Akad. Nauk SSSR

Ukr. Biokhim. Zh.
Ukr. Khim. Zh. (Russ. Ed.)
Usp. Khim.
UV Spectrom. Group Bull.
Uzb. Khim. Zh.

Vestn. Leningr. Univ., Fiz., Khim.
Vestn. Mosk. Univ., Khim.
Vestn. Slov. Kem. Drus.
Vestsi Akad. Navuk B, SSR. Ser. Khim. Navuk
Vesztpremi Vegyip. Egy. Kozl.
Vitam. Horm. (N.Y.)
Vopr. Med. Khim.
Vysokomol. Soedin., Ser. A
Vysokomol. Soedin., Ser. B

Xenobiotica

Yakugaku Zasshi
Yuki Gosei Kagaku Kyokai Shi

Z. Anorg. Allg. Chem.
Zavod. Lab.
Zb. Pr. Chemickotechnol. Fac. SVST Z. Chem.
Zentralbl. Pharm., Pharmakother. Laboratoriumsdiagn.
Zh. Anal. Khim.
Zh. Eksp. Teor. Fiz.
Zh. Evol. Biokhim. Fiziol.
Zh. Fiz. Khim.
Zh. Nauchn. Prikl. Fotogr. Kinematogr.
Zh. Neorg. Khim.
Zh. Obshch. Khim.
Zh. Org. Khim.
Zh. Prikl. Khim.
Zh. Prikl. Spektrosk.
Zh. Strukt. Khim.
Zh. Vses. Khim. Ova.
Z. Kristallogr., Kristallgeom., Kristallphys., Kristallchem.
Z. Lebensm. -Unters. Forsch.
Z. Naturforsch., Teil A
Z. Naturforsch., Teil B
Z. Naturforsch., Teil C
Z. Phys. Chem. (Frankfurt am Main)
Z. Phys. Chem. (Leipzig)
Z. Vitam., Horm., Fermentforsch.
Z. Wiss. Photogr., Photophys., Photochem.

NOTICES TO AUTHORS—No. 5/1969

The International System of Units (SI)

Preamble

For many years the practice of The Society in respect of units has been based on the recommendations of a joint Committee of The Royal Society, The Chemical Society, The Faraday Society, and The Physical Society. The 1951 set of recommendations published by that Committee formed the basis of Chapter 7 of the 'Handbook for Chemical Society Authors' but since their promulgation much effort has been expended in international circles to devise and approve a basic set of coherent units. This having been completed, The Joint Symbols Committee of The Royal Society, of which The Chemical Society is a participating member, has produced a completely new set of recommendations in a pamphlet 'Symbols, Signs and Abbreviations' 1969 (copies of this pamphlet or further details can be obtained from the Managing Editor, The Chemical Society, Burlington House, London, W1V OBN). The basis of the new recommendations is the 'Système International d'Unités' (to be abbreviated to SI, in all languages).

The advantages offered by SI are as follows.

(i) It is a truly coherent system, *i.e.* the product or quotient of any two unit quantities in the system is the unit of the resultant quantity. This contrasts with the previous situation where, even in metric systems used within the same discipline, many additional units are arbitrarily and sometimes differently defined.

(ii) SI derives nearly all the quantities needed in all sciences and technologies from a very small set of base-units.

(iii) The variety of multiples and sub-multiples in common use is minimized.

(iv) A more uniform presentation can be ensured.

(v) Presentation is such that the relation of any derived unit, or multiple or sub-multiple of a derived unit, to the coherent unit is always obvious and simple.

Policy

(1) The Society announces its approval and support of SI, and its intention that SI shall become the preferred system in its publications.

(2) *Guidelines for the publications of the Society.* The Society realises that public acceptance of this system will be more a matter of education and tolerance than of dictatorial action. It nevertheless desires that the SI system and units compatible with it shall *rapidly* become the established standard in the Society's publications. An author will not be denied any reasonable usage, but if non-SI units are used for critical data or for quantities measured to a high order of accuracy (as opposed to the rough physical conditions of an experiment), the definitive values will be expressed in SI units as well.

The following will be the guidelines used:

(*a*) A metric system will always be used in preference to a non-metric one.

(*b*) The SI system will be the standard usage.

(*c*) The units used to record the *definitive* values of 'critical data' or quantities measured to high degree of accuracy will be of the SI system.

(*d*) When non-SI units are used they must be adequately explained unless their definition is obvious (*e.g.* degree Celsius, mmHg, g, h). The derivation of derived non-SI units will be indicated.

(*e*) Equations involving electrical quantities should normally be those appropriate for use with SI (rationalized m.k.s) units. If authors wish to use equations suitable for e.s.u. or e.m.u. the lack of consistency with SI units must be explicitly noted.

(3) *The principal changes.* There are four of these:

(*a*) Basic units: the metre and the kilogramme replace the centimetre and the gramme of the old metric system.

(*b*) The unit of force is now the newton (kg m s^{-2}).

(*c*) The unit of energy is the joule and of power the joule per second (watt); thus the variously defined calories and non-metric units of energy and power are superseded.

(*d*) 'Electrostatic' and electromagnetic' units are replaced by SI electrical units.

Detail

(4) *Definition.* A quantity is expressed as the product of a numerical value and a unit.

(5) *The System.* The fully coherent SI consists of base-units, supplementary units, derived units, and decimal multiples and sub-multiples of these units, formed by use of prefixes only.

(6) *Coherent systems.* A coherent system is one based on a selected set of 'base-units' from which 'derived units' are obtained by multiplication without introducing numerical factors.

(7) *Base-units.* The name International System of Units (SI) was adopted by the Conférence Générale de Poids et Mesures in 1960 for the coherent system now based on the base-units given in Table 1.

TABLE 1

Physical quantity	*Name of base-unit*	*Symbol for unit*
length	metre	m
mass	kilogramme	kg
time	second	s
electrical current	ampere	A
thermodynamic temperature	kelvin	K
luminous intensity	candela	cd
amount of substance	mole	mol

(8) *Supplementary units.* The SI also includes two 'supplementary' *dimensionless* units as follows:

Physical quantity	*Name of unit*	*Symbol for unit*
plane angle	radian	rad
solid angle	steradian	sr

(9) *Multiples and sub-multiples.* In the SI there is one and only one basic unit for each physical quantity. Decimal fractions and multiples of these basic units may, however, be constructed by use of certain prefixes (see Table 2). They may also be used with derived SI units.

TABLE 2

Fraction	*Prefix*	*Symbol*	*Multiple*	*Prefix*	*Symbol*
10^{-1}	deci	d	10	deka	da
10^{-2}	centi	c	10^{2}	hecto	h
10^{-3}	milli	m	10^{3}	kilo	k
10^{-6}	micro	μ	10^{6}	mega	M
10^{-9}	nano	n	10^{9}	giga	G
10^{-12}	pico	p	10^{12}	tera	T
10^{-15}	femto	f			
10^{-18}	atto	a			

The combination of a prefix and a unit symbol constitutes a new single unit symbol; compounding of prefixes is not permitted.

Although it will not always be possible, particularly in Tables, the general principle should be to choose a unit (*i.e.* including multiple or sub-multiple) such that the resulting numerical value is between 0·1 and 1000.

(10) *Derived units.* Some derived units have special names and symbols, and these are given in Table 3.

TABLE 3

Physical quantity	*Name of SI unit*	*Symbol for SI unit*	*Definition of SI unit*
energy	joule	J	$kg\ m^2\ s^{-2}$
force	newton	N	$kg\ m\ s^{-2} = J\ m^{-1}$
power	watt	W	$kg\ m^2\ s^{-3} = J\ s^{-1}$
electric charge	coulomb	C	A s
electric potential difference	volt	V	$kg\ m^2\ s^{-3}A^{-1} = JA^{-1}\ s^{-1}$
electric resistance	ohm	Ω	$kg\ m^2\ s^{-3}A^{-2} = VA^{-1}$
electric capacitance	farad	F	$A^2\ s^4\ kg^{-1}\ m^{-2} = As\ V^{-1}$
magnetic flux	weber	Wb	$kg\ m^2\ s^{-2}A^{-1} = V\ s$
inductance	henry	H	$kg\ m^2\ s^{-2}A^{-2} = VA^{-1}\ s$
magnetic flux density	tesla	T	$kg\ s^{-2}A^{-1} = V\ s\ m^{-2}$
luminous flux	lumen	lm	cd sr
illumination	lux	lx	$cd\ sr\ m^{-2}$
frequency	hertz	Hz	s^{-1}

Others do not

Physical quantity	*SI unit*	*Symbol for SI unit*
area	square metre	m^2
volume	cubic metre	m^3
density	kilogramme per cubic metre	$kg\ m^{-3}$
velocity	metre per second	$m\ s^{-1}$
angular velocity	radian per second	$rad\ s^{-1}$
acceleration	metre per second squared	$m\ s^{-2}$
pressure	newton per square metre	$N\ m^{-2}$
kinematic viscosity, diffusion coefficient	square metre per second	$m^2\ s^{-1}$
dynamic viscosity	newton second per square metre	$N\ s\ m^{-2}$
electric field strength	volt per metre	$V m^{-1}$
magnetic field strength	ampere per metre	$A\ m^{-1}$
luminance	candela per square metre	$cd\ m^{-2}$

(11) *Symbol.* The symbol for a unit will be printed in roman (upright) type, remains unaltered in the plural and does *not* take a full point, *i.e.* 5 cm not 5 cm. or 5 cms or 5 cms.

The symbol will be separated from the numerical value by a thin space.

(12) *Decimal fractions and multiples of SI units having special names.* These names are not part of the SI, but for the time being their use in The Society's publications may continue. The list given in Table 4 is not exhaustive.

TABLE 4

Physical quantity	*Name of unit*	*Symbol unit*	*Definition of unit*
length	ångström	Å	$10^{-10}\ m = 10^{-1}\ nm$
length	micron	μn	$10^{-6}\ m$
area	barn	b	$10^{-28}\ m^2$
volume	litre	l	$10^{-3}\ m^3 = dm^3$
mass	tonne	t	$10^3\ kg = Mg$
force	dyne	dyn	$10^{-5}\ N$
pressure	bar	bar	$10^5\ N\ m^{-2}$
pressure	pascal	Pa	Nm^{-2}
energy	erg	erg	$10^{-7}\ J$
kinematic viscosity diffusion coefficient	stokes	St	$10^{-4}\ m^2\ s^{-1}$
dynamic viscosity	poise	P	$10^{-1}\ kg\ m^{-1}\ s^{-1}$
magnetic flux	maxwell	Mx	$10^{-8}\ Wb$
magnetic flux density (magnetic induction)	gauss	G	$10^{-4}\ T$
conductance	siemens	S	Ω^{-1}

(13) *Units defined in terms of the best available experimental values of certain physical constants.* These units are not part of the SI. The factors for conversion of these units to SI units are subject to change in the light of new experimental measurements of the constants involved. Their use outside the restricted contexts to which they are appropriate should be discouraged. The following list is not exhaustive.

Physical quantity	*Name of unit*	*Symbol for unit*	*Conversion factor*
energy	electronvolt	eV	$eV \approx 1{\cdot}6021 \times 10^{-19}\ J$
mass	unified atomic mass unit	u	$u \approx 1{\cdot}660\,41 \times 10^{-27}\ kg$

(14) *Other units now exactly defined in terms of the SI units.* These units are not part of the SI. It is recognized that their use may be continued for some time but it is recommended that except in special circumstances they should be progressively abandoned in conformity with international recommendations. The list given in Table 5 is by no means exhaustive. Each of the definitions given in the fourth column is *exact.*

TABLE 5

Physical quantity	*Name of unit*	*Symbol for unit*	*Definition of unit*
length	inch	in	$2{\cdot}54 \times 10^{-2}\ m$
mass	pound (avoirdupois)	lb	0·453 592 37 kg
time •	minute	min	60 s
time •	hour	h	3600 s
force	kilogramme-force	kgf	9·806 65 N
force	pound-force	lbf	9·806 65 × 0·453 592 37 N
pressure	atmosphere	atm	101 325 $N\ m^2$
pressure	conventional millimetre of mercury	mmHg	$13{\cdot}5951 \times 9{\cdot}806\ 65\ N\ m^{-2}$
pressure	torr	Torr	$(101\ 325/760)\ N\ m^{-2}$
pressure	pound-force per square inch	lbf in^{-2}	$\frac{9{\cdot}806\ 65 \times 4535{\cdot}9237}{6{\cdot}4516}\ N\ m^{-2}$
energy	kilowatt hour	kW h	$3{\cdot}6 \times 10^6\ J$
energy	thermochemical calorie	cal(thermochem.)	4·184 J
energy	I.T. calorie	cal_{IT}	4·1868 J
thermodynamic temperature	degree Rankine	°R	(5/9) K
radioactivity	curie	Ci	$3{\cdot}7 \times 10^{10}\ s^{-1}$

• Use of other common units (min, h, day) may continue in normal expressions of intervals of time.

Formulae and Figures

The purpose of all illustrative matter in a paper is to clarify the arguments and descriptions rather than to duplicate them. The Society strongly encourages the use of displayed formulae, particularly in the form of schemes where the details of a reaction sequence are often more easily understood when illustrated than when described in the text.

All formulae and figures should be clearly drawn, and in the case of figures provided with captions; the latter should be typed on a separate sheet. Since all formulae carry a key number by which they are identified, unless they form part of the running text or unless they are part of a scheme which itself has a caption, they are not generally further described. Blocks of formulae do not need a caption.

Illustrative matter is divided, for technical reasons, into figures and formulae, although in many cases (*e.g.* crystal structures which may be regarded as formulae but which are treated as figures) these divisions overlap.

Structural Formulae.—(*a*) Only those formulae which are displayed may be given key numbers. In all other cases the compounds concerned are referred to by name only.

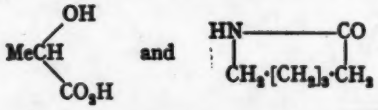
(*b*) Formulae are numbered sequentially with bold arabic numerals in parentheses [(1), (2), and (3) *etc.*] as they are displayed and *not* as they are mentioned in the text.

(*c*) In complex reaction schemes the formulae should be numbered serially following the reaction sequence. Non-sequential numbering in a collection of formulae can render it hard to locate an individual number.

(*d*) Structural or displayed formulae must be carefully and accurately drawn or typed on a separate sheet, rather than inserted into the text, although a marginal indication of where they are to go in the text is desirable.

(*e*) Formulae inserted into the body of the text (as distinct from those displayed separately) should be written on one line if possible, *e.g.*

HO·CHMe·CO_2H and $\overline{NH\cdot[CH_2]_5\cdot CO}$ rather than



(*f*) Points (which may be typed as full stops) are used to indicate bonds between the atoms of the backbone chain of a compound. The symbol of each element of that chain is preceded by a full stop (or colon for a double bond) and followed by the symbols or formulae of the atoms or groups that are attached to it (parentheses being used where necessary to enclose compound groups), *e.g.* *o*-HO·C_6H_4·CH_2·NH_2 and CH_2Cl·CH(OH)·CO_2H.

Groups that are indicated by a single symbol (*e.g.* Me and Et *etc.*) do not need use of such full stops.

Repeating sequences of a backbone composite group are enclosed with square brackets and their number is indicated by an inferior multiplier, *e.g.* HO·$[CH_2]_6$·NH_2, but HO·$[CH_2]_6$·$N(CH_2{\cdot}OH)_2$.

(*g*) The use of large circles to represent six delocalized π-electrons in cyclic systems (with or without positive or negative signs as appropriate) is permitted in certain circumstances. Cyclic systems with more or less than six delocalized π-electrons may be represented by formulae containing dotted lines. Both topics are dealt with in *Proceedings*, 1959, 75.

(*h*) Customary steric conventions must be observed, notably for steroids, triterpenes, and carbohydrates. The Society uses wedges (◢) or heavy lines (—) rather than blocked circles (●) and broken lines in the form – – – – – rather than ⁞‖⁞.

(*i*) The symbols Me, Et, Pr^n, Pr^i, Bu^n, Bu^i, Bu^s, Bu^t, Ph, Ac, Bz (the symbol for PhCO and not for $PhCH_2$), Alk, Ar, and Hal, should be used but may be written in full when the groups are involved in the reaction described. Other special symbols, if used, require an explanatory footnote. The carboxy-group is written CO_2H (*not* COOH) and similarly CO_2R.

(*j*) One variable univalent substituent is indicated by R; when more than one independently variable general substituent is present, R^1, R^2, and R^3 should be used (*not* R, R^1, R^2, R^3; or R_1, R_2, and R_3 which indicate 1 × R and multiples of R thereof).

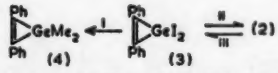
(*k*) Often it is desirable to use one formula to represent a number of related compounds (or classes of compounds) by the use of one or more independently variable substituents. It is preferable to give each compound thus represented a separate key number rather than to subdivide individual key numbers by alphabetical suffixes [*i.e.* (1a), (1b), (1c) *etc.*].

(1) R^1 = R^2 = Ph, R^3 = Me, X = O
(2) R^1 = Me, R^2 = R^3 = Ph, X = S

(3) R^1 = Me, R^2 = Ph, R^3 = Bz
(4) R^1R^2 = CO·O·CO, R^3 = Ph

The use of more than four independently variable substituents or atoms on one generalized formula is discouraged.

(*l*) Once a formula has been displayed it is permissible to employ its key number in later reaction schemes or equations rather than to re-display the formula:



Reagents: i, MeMgI; ii, NaOH; iii, HI

It should be noted that reagents and reaction conditions are given as footnotes to the scheme for economy of space; if present, an equation number is set as far to the right as possible, and if there is likelihood of

confusion with compound key-numbers it is accompanied by the word equation.

(*m*) Displayed formulae, unless they are capable of being typed on one line [see point (*e*) above], should not be included in tables; they should be displayed before the table with a key number for each compound and this should be used in the table.

(*n*) The key number for a compound may be used in the cursive text to avoid repetition of long chemical names; this device must not be used to excess. In general it is preferred if the key number is qualified by a partial name for the compound as in the following example:

' Pyolin (1) was oxidized by permanganate to the oxo-acid (2), the methyl ester (3) of which with methylmagnesium iodide gave the normal product (4) '.

(*o*) Reference to compounds in the Summary by key number alone is not allowed since a summary should be comprehensible without reference to the body of the paper itself. The reference number should, however, accompany the name of the compound to which it refers.

Figures.—(*a*) Figures must bear on the back the names of the authors, the title of the paper (abbreviated if necessary), and the number of the figure.

(*b*) Figures must be in Indian ink, on Bristol board, white smooth cartridge paper, tracing linen, plastic film (it is essential that the special plastic ink developed for this is used), or graph paper with *faint* blue lines (red or brown lines must not be present as these may be reproduced by the photographic process of block making). Since lines must be black and sharp, photostats or similar prints are often not suitable. If paper is used, it must be strong enough to withstand repeated handling.

(*c*) Lettering and numerals must be in *blue pencil* (*not* red or black pencil or ink) clearly legible but not so heavily scored as to make a permanent impression on the paper or board.

(*d*) When the figures are large (more than 8 in × 10 in), smaller copies (which may be rough, as long as they are clear) should be supplied for submission to the referees; editing will not be undertaken, however, before the final figures are received.

(*e*) Figures must be carefully drawn, preferably three times the size (linear) that seems necessary to ensure sharp printing, but excessive reduction is costly and illustrations that exceed five times the size of the finished block may be returned to the author for redrawing.

(*f*) Two-inch margins are essential all round figures. Lettering for insertion at margins should be placed well clear of the ordinate or abscissa line so that it can be copied before erasure.

Lettering and touching-up are done by the Society and clarity of instructions is essential. When there is much lettering, or complicated lettering, and always when tracing linen or plastic film is used, a rough tracing should be added with the lettering shown in ink.

(*g*) Since, for printing, the size is reduced, lines should not be too thin. Given lines must be of even thickness, angles neat, and curves smooth.

(*h*) Graphs should have only the requisite minimum of the scale (not less than three points) marked by numerals, and the scale lines should not normally be continued into the body of the figure.

(*i*) Graphs in any one paper should, when convenient, be drawn to the same scale, and scale markings should, when possible, be identical so that the graphs may be placed adjacent on the page. Contrariwise, two curves drawn to different scales can be shown on one graph by having the appropriate scales on the left-hand and the right-hand side. The use of both right- and left-hand axes and top and bottom axes on figures which have quantitative significance is encouraged.

(*j*) Experimental points must be shown sufficiently large to be distinguishable when reduced in size. Whenever possible, they should be confined to open and closed circles, crosses, squares, and triangles. Partly black circles and similar signs frequently become indistinguishable in print.

(*k*) Curves may be distinguished as full lines (——), broken (– – – –) or dotted lines (· · · ·), and dot-dash lines (— · — · —); further differentiation should normally be achieved by labelling the curves, which is, in any case, desirable.

(*l*) For reference in legends, it is preferable to mark curves A, B, C, *etc.* rather than to reproduce the type of line in print.

(*m*) There must be no unnecessary waste space, *e.g.* around curves; ordinates and abscissae should start at zero only if the curve extends to that range. Enlargement of parts of a figure can occasionally be placed in a corner of the complete figure.

(*n*) It is not advisable to insert much or complicated lettering on curves or in blank spaces; mistakes (in copying by the artist) can rarely be rectified once the block is made. It is better to label the curves A, B, C, *etc.* and to use explanatory legends.

(*o*) *Large* solid objects should be represented by hatching rather than by black surfaces, otherwise the ink may smear on printing.

(*p*) Photographs are reproduced by a half-tone process on art paper. The prints supplied must be very clear and of good contrast, as considerable definition may be lost in reproduction.

(*q*) Captions and explanatory legends, to be set by the printer should be typed on a separate page attached to the manuscript, and not given on the figure itself.

(*r*) Figures are numbered consecutively Figure 1, Figure 2, *etc.* (in arabic numerals). Photographs (half-tone reproduction) are numbered consecutively Plate 1, Plate 2, *etc.* but these numbers are independent of the numbering of any figures.

(*s*) Since figures represent an uneconomical use of space their number and size should be kept to a minimum. Figures and tables for the same values are discouraged.

NOTICES TO AUTHORS—No. 7/1970 (revised 1976)

Deposition of Data—Supplementary Publications Scheme

Preamble

The growing volume of research that produces large quantities of data, the increasing facilities for analysing such data mechanically, and the rising cost of printing are all making it very difficult to publish in the *Journal* in the normal way the full details of the experimental data which become available. Moreover, whilst there is a large audience for the general method and conclusions of a research project, the number of scientists interested in the details, and in particular in the data, of any particular case may be quite small. The British Library, Lending Division (B.L.L.D.) in consultation with the Editors of scientific journals, has now developed a scheme whereby such data and detail may be stored and then copies made available on request at the B.L.L.D., Boston Spa. The Chemical Society is a sponsor of this scheme and has indicated to the B.L.L.D. its wish to use the facilities being made available in this ' Supplementary Publications Scheme '.

Bulk information (such as crystallographic structure factor tables, computer programmes and output, evidence for amino-acid sequences, spectra, *etc.*), which accompanies papers published in future issues of the Chemical Society's *Journal* may in future be deposited, free of charge, with the Supplementary Publications Scheme, either at the request of the author and with the approval of the referees or on the recommendation of referees and with the approval of the author.

The Scheme

Under this scheme, authors will submit articles and the supplementary material to the *Journal* simultaneously in the normal way, and both will be refereed. If the paper is accepted for publication the supplementary material will be sent by the Society to the B.L.L.D. where it will be stored. Copies will be obtainable by individuals both in the U.K. and abroad on quoting a supplementary publication number that will appear in the parent article.

Preparation of Material

Authors will be responsible for the preparation of camera-ready copy according to the following specifications (although the Society will be prepared to help in case of difficulty).

(*a*) Optimum page size for text or tables in typescript: up to 30 cm × 21 cm.
(*b*) Limiting page size for text or tables in typescript: 33 cm × 24 cm.
(*c*) Limiting size for diagrams, graphs, spectra, *etc.*: 39 cm × 28.5 cm.
(*d*) Tabular matter should be headed descriptively on the first page, with column headings recurring on each page.
(*e*) Pages should be clearly numbered.

It is recommended that all material which is to be deposited should be accompanied by some prefatory text. Normally this will be the summary from the parent paper and authors will greatly aid the deposition of the material if a duplicate copy of the summary is provided. If authors have the facilities available the use of a type face designed to be read by computers is encouraged.

Deposition

The Society will be responsible for the deposition of the material with the B.L.L.D. The B.L.L.D. will not receive material direct from authors since the Library wishes to ensure that the material has been properly and adequately refereed.

Action by the Society

The Society will receive a manuscript for publication together with any supplementary material for deposition and will circulate all of this to referees in the normal way. When the edited manuscript is sent to the printers the supplementary material will be sent for deposition to the B.L.L.D. The Society will add to the paper a footnote indicating what material has been deposited in the Supplementary Publications Scheme, the supplementary publication number, and details as to how copies may be obtained.

Availability

Copies of Supplementary Publications may be obtained from the B.L.L.D. on demand by organizations which are registered borrowers. They should use the normal forms and coupons for such requests addressing them as follows:

Mr. J. P. Chillag,
British Library Lending Division,
Boston Spa,
Wetherby,
West Yorkshire, LS23 7BQ, U.K.

Non-registered users may also obtain copies of Supplementary Publications but should first apply for price quotations. These are available from the Loans Office at the above address.

International Collaboration

A similar scheme (known as the National Auxiliary Publications Service) is being operated in the U.S.A. by the American Society for Information Science. Similar schemes are also being contemplated in other countries. The provision of reciprocal arrangements for the exchange of supplementary data between the various national deposition centres is being investigated.

NOTICES TO AUTHORS—No. 8/1970

X-Ray Crystallographic Structure Factor Tables

The Society has recently taken advice from the members of its Chemical Crystallography Group and as a result of this and of the inception of the National Lending Library Supplementary Publications Scheme (discussed in Notices to Authors No. 7) the following rules are being taken into use forthwith to govern the publication or deposition of *X*-ray crystallographic structure factor tables.

(i) The Society will no longer publish tables of structure factors in its publications except in accordance with the provision of paragraph (iv) below.

(ii) All authors of crystallography papers will submit along with the manuscript a readable table of such structure factors for the referees' inspection. The table should be prepared in accordance with the detail given in paragraph 3 of Notices to Authors No. 7 so that it may be used for deposition. Computer printout may be used providing that it is top copy in good contrast (see note).

(iii) If the referees accept the paper and its associated structure factor tables then the Society will deposit these structure factor tables in the National Lending Library Supplementary Publications Scheme (see Notices to Authors No. 7) and will publish as a footnote to the paper the necessary details that will enable any reader to obtain a copy in microfiche or an electrophotographic printoff of the data tables associated with the paper.

(iv) Authors, or the referees, may request publication of such tables of structure factors, *in extenso*, in cases that seem to them to be desirable. It is expected that this will occur only rarely.

(v) The details of the National Lending Library Supplementary Publications Scheme and the methods for obtaining photographic printoff of material deposited with that scheme are given in Notices to Authors No. 7.

Note to paragraph (ii). Structure factors tables prepared from computer printout must be presented in the form indicated in paragraph 3 of Notices to Authors No. 7 and must be arranged with the greatest economy of space possible [*i.e.* not less than two groups of columns (h, k, l, F_o, F_c) to the page (30 cm × 21 cm)]. All columns must be headed. A ' paste-up ' on white card of computer printout will be acceptable providing the quality of the printout is adequate.

NOTICE TO AUTHORS—No. 9/1974

Nomenclature

For many years the Society has actively encouraged the use of standard I.U.P.A.C. nomenclature and symbolism in its publications as an aid to the accurate and unambiguous communication of chemical information between authors and readers. Although the I.U.P.A.C. rules for naming organic compounds have now gained wide acceptance amongst chemists, mainly because they have been in existence for a number of years, those for naming inorganic compounds are of more recent origin and for this reason their acceptance is less general.

In order to encourage authors to use I.U.P.A.C. nomenclature rules when drafting papers, attention is drawn to the following publications in which both the rules themselves and guidance on their use are given.

'Nomenclature of Organic Chemistry, Sections A, B, and C,' Butterworths, London, 2nd Edition, 1971.

'Nomenclature of Inorganic Chemistry,' Butterworths, London, 1971.

'Manual of Symbols and Terminology for Physicochemical Quantities and Units,' Butterworths, London, 1970.

In addition to the above publications, provisional rules for the naming of organometallic compounds, amino-acids, carbohydrates, carotenoids, and steroids, and rules of stereochemistry are available from the:

I.U.P.A.C. Secretariat,
Bank Court Chambers,
2—3 Pound Way,
Cowley Centre,
OXFORD OX4 3YF.

It is recommended that where there are no I.U.P.A.C. rules for the naming of particular compounds or authors find difficulty in applying the existing rules, they should seek the advice of the Society's editorial staff.

NOTICE TO AUTHORS—No. 10/1976

Authentication of New Compounds

(1) It is the responsibility of authors to provide fully convincing evidence for the homogeneity and identity of all compounds they claim as new. Evidence of both purity and identity is required to establish that the properties and constants reported are those of the compound with the new structure claimed.

(2) In the context of this Notice a compound is considered as new (*a*) if it has not been prepared before, (*b*) if it has been prepared before but not adequately purified, (*c*) if it has been purified but not adequately characterised, (*d*) if, earlier, it has been assigned an erroneous constitution, or (*e*) if it is a natural product synthesised for the first time. In preliminary communications compounds are often recorded with limited characterising data; in spite of (*c*) above later preparations of such compounds are not considered as new if the properties previously reported are confirmed; the same applies to patents.*

(3) Referees are asked to assess, as a whole, the evidence in support of the homogeneity and structure of all new compounds. No hard and fast rules can be laid down to cover all types of compounds, but the Society's policy remains unchanged in that evidence for the unequivocal identification of new compounds should normally include good elemental analytical data; an accurate mass measurement of a molecular ion does not provide evidence of purity of a compound and must be accompanied by independent evidence of homogeneity. Low-resolution mass spectroscopy must be treated with even more reserve in the absence of firm evidence to distinguish between alternative molecular formulae. Where elemental analytical data are not available, appropriate evidence which is convincing to an expert in the field will be acceptable, but authors should include, for the referees, a brief explanation of the special nature of their problem.

(4) Spectroscopic information necessary to the assignment of structure should normally be given. Just how complete this information should be must depend upon the circumstances; the structure of a compound obtained from an unusual reaction or isolated from a natural source needs much stronger supporting evidence than one derived by a standard reaction from a precursor of undisputed structure. Authors are reminded that full spectroscopic assignments may always be treated as a Supplementary Publication where their importance does not justify their inclusion in the published paper.

(5) Finally, referees are reminded of the need to be exacting in their standards but at the same time flexible in their admission of evidence. It remains the Society's policy to accept work only of high quality and to permit no lowering of present standards.

* New compounds should be indicated by underlining the name (for italics) at its first mention (excluding headings) in the Experimental section only, and by giving analytical results in the form: (Found: C, 63.1; H, 5.4. $C_{13}H_{12}NO_4$ requires C, 63.2; H, 5.3%). If analytical results for compounds which have been adequately described in the literature are to be included, they should be given in the form: (Found: 62.95; H, 5.4. Calc. for $C_{13}H_{12}NO_4$: C, 63.2; H, 5.3%). Analyses are normally quoted to the nearest 0.05%.

NOTICE TO AUTHORS—No. 11/1976

Publication of *X*-Ray Crystallographic Work in the *Journal*

Preamble

At a meeting of the Primary Journals Committee held in October 1975 a sub-committee was set up to consider policy with regard to publication in the *Journal* of both preliminary communications and substantive papers concerned with *X*-ray crystallographic work. This step was taken in the light of correspondence received by the Society which indicated concern by many referees on the problems created by the large number of routine *X*-ray crystallographic studies submitted to the Society as a result of the increasing ease of carrying out such work.

Since the sub-committee's terms of reference were wide it was able to consider both this problem and others relating to publication of *X*-ray crystallographic work in all sections of the *Journal*. Its recommendations which are outlined below fall into two groups: those concerned with preliminary communications and those with full papers. These recommendations have been endorsed by the Primary Journals Committee and now represent the Society's policy with regard to crystallographic work submitted for publication in its primary journals.

Preliminary Communications

(1) Evidence was presented to the sub-committee that a major problem associated with the publication of preliminary reports of crystallographic work in *J.C.S. Chem. Comm.* arose as a result of the non-availability to interested readers of the atomic co-ordinates associated with this work. Although in the normal course of events such data would be expected to appear in the follow-up paper, many cases were cited where the period between publication of the preliminary report and the substantive paper was many years or the full papers never appeared in print. The evidence presented suggested that there was considerable disquiet among crystallographers at this state of affairs. In an attempt to improve this situation and after consultation with the Cambridge Crystallographic Data Centre (C.C.D.C.) the Society has resolved to press authors of preliminary reports of *X*-ray crystallographic work to submit together with their communication certain material for deposition with the Centre.* This material will be checked at the Centre for internal consistency and, afterwards, will be available on request to interested readers. The procedure to be adopted will be as follows:

(i) In addition to the communication and the customary covering letter of justification the authors will be expected to provide a complete list of refined co-ordinates (in the form of computer print-out and NOT a retyped version) and a table of bond distances unless these are given in full in the manuscript. If the complete 'crystal data' (*i.e.* cell dimensions and standard deviations, space group, number *Z* of formulae units per cell) are not listed in the manuscript these must also be submitted.

It should be emphasised that the co-ordinates submitted for deposition, whilst not necessarily being 'fully' refined, should correspond to the stage of refinement described in the preliminary communication and should be the set for which the *R* factor is quoted. It follows that all bond distances given in the preliminary communication should correspond, apart from any rounding-off errors, with bond distances which can be calculated from the deposited co-ordinates.

(ii) The communication will be assessed in the customary fashion, the material for deposition also being made available to the referees concerned. If the communication is accepted the Society will forward the material for deposition to the C.C.D.C. A statement will be made in the communication that particular material is available from the Centre on request.

(iii) The C.C.D.C. will acknowledge receipt of the material. When a communication is published the deposited material will be evaluated and included in their files as part of their normal abstracting cycle. The evaluation consists of recalculation of the bond lengths from the author's co-ordinates and comparison of these with the author's values. All data on the Centre's files have to pass this internal consistency test. It will not, however, be possible for the evaluation to be made before the appearance of the preliminary communication in print.

(iv) Finally, where an author plans not to follow-up his preliminary communication with a full paper he will be required to submit, in addition to the material outlined above, a copy of the structure factor table for the work presented for deposition with the British Library, Lending Division. In this way it too will be available to interested readers.

(2) In order to aid the readability of communications it is recommended that each should contain a line drawing of the compound under discussion where appropriate.

Papers in Dalton and Perkin Transactions

The sub-committee considered evidence which indicated that *X*-ray crystallographic papers submitted to the *Journal* were assessed in a less rigorous fashion than those reporting other areas of work. Although the sub-committee felt that this claim was largely unsubstantiated it was agreed that improvement of both assessment procedure and presentation of work was possible. The following recommendations have, therefore, been adopted.

(1) Crystallographic papers will be assessed for their chemical as well as their crystallographic interest.

(2) Unless both specifically requested by the author and recommended by the referees for publication, vibrational parameters will be routinely deposited with the structure factors as a Supplementary Publication. Where vibrational parameters are to be published they should be in the form of U_{ij} with units of $Å^2$.

Referees are reminded that they may, at their discretion, recommend other material for deposition where in their view its inclusion in the parent paper is not justified by its interest.

(3) Each paper should contain a line drawing of the compound under discussion where appropriate in addition to the usual crystallographic figures.

* Applies only to compounds containing organic carbon atoms.

NOTICE TO AUTHORS—No. 12/1977

Publication of Theoretical and Computational Papers

The Primary Journals Committee has been considering future policy towards the publication of papers with a heavily computational content, particularly where these involve standard methods, such as semi-empirical or *ab initio* calculations of molecular electronic properties using readily available computer programmes. Many such papers report what would be considered 'routine work' in other areas of chemistry, and have often included extensive detail.

A specialist sub-committee formulated a set of proposals which were circulated to a large representative sample of theoretical chemists and met with general acceptance. These, with the comments on them, form the basis of this notice.

The Primary Journals Committee recognises that computational work can play a valuable role in chemistry, and will probably continue to do so on an increasing scale. It accepts the time-honoured principle that the first criterion for publication of a paper by the Society should be the worthiness of the chemical problem considered, rather than the particular techniques employed by the author. For example, the use of a new computing algorithm, or the modification of a programme, would not usually, on its own, provide sufficient justification for publication.

The Primary Journals Committee recommends to authors the following guidelines for the preparation of computational papers, so that the material can be presented concisely and effectively.

(i) Papers should be submitted to the appropriate journal: a paper containing innovations in theory to Faraday Transactions II, one in which the computations are incidental to the chemistry to Perkin, Dalton, or Faraday I Transactions. Papers concerned mainly with computational details are unlikely to be accepted.

(ii) The purpose of the paper and the precise objectives of the calculations performed should be clearly stated: the results obtained should be reported only in so far as they relate to those objectives.

(iii) Many papers use a routine procedure based on a well documented method, be it semi-empirical or *ab initio*. It is then sufficient to name the particular variant, referring to key papers in which the method was developed, to cite the computer programme used, and to indicate *briefly* any modification made by the author. A review of theoretical background would be out of place, but an author should say why he considers the method adequate for his purposes.

(iv) Extensive tabulation of numerical results, such as the magnitudes of atomic orbital coefficients, electron populations, contour maps of molecular orbitals and electron densities, and peripheral material of a similar nature, is normally unnecessary. Lengthy line-by-line discussion of such material is, as a general rule, quite unacceptable. Where an author considers that there is a special need to make such material available to other workers, as with highly accurate computations, for example, then this may be deposited with the British Library as a Supplementary Publication. Such material should be submitted with the main paper, clearly distinguished from it, and referred to in the main text.

Guidelines can never provide sufficient criteria for acceptance or rejection of a paper. Critical assessment of the theoretical methods used in a computation, and of their suitability for the purpose in hand, will continue to be entrusted to specialist referees who must also decide whether the results are new and advance science.

NOMENCLATURE INDEX

Listed here are rules for naming, symbolizing and representing chemical compounds, formulas and data published by IUPAC in recent years. Nomenclature rules are developed by IUPAC Commissions and initially published in provisional form. Comments are sought during the following period, and changes may be incorporated before the rules are approved for publication in definitive form.

ACTIVITIES

Definition of Activities and Related Quantities. Appendix 1 of "Manual of Symbols and Terminology for Physicochemical Quantities and Units", 1979 Edition. Available from Pergamon Press.

AMINO ACIDS AND DERIVATIVES

Nomenclature of Amino Acids (Provisional Nomenclature Appendix No. 46, September 1975)

Symbols for Amino Acid Derivatives and Peptides (*Pure & Appl. Chem.*, Vol. 40, No. 3, 1974, pp. 315-331).

see: proteins & peptides

ANALYTICAL CHEMISTRY

Compendium of Analytical Nomenclature, Definitive Rules 1977. Published as a book by Pergamon Press, Oxford. 1978.

Guide to Trivial Names and Synonyms (for Substances used in Analytical Chemistry) *Pure & Appl. Chem.*, No. 4, 1978, p. 339).

see also: Microchemical Analysis, Spectrochemical Analysis, Chemical Analysis.

ATOMIC ABSORPTION / EMISSION

See: Spectrochemical Analysis.

BIOCHEMISTRY

Recommendations for Measurement and Presentation of Biochemical Equilibrium Data (Provisional Nomenclature Appendix No. 61, July 1977, *Info. Bull.*).

see: Clinical Chemistry, Phosphorus - containing compounds of Biochemical Importance, Nucleic Acids, Proteins, Enzymes, Vitamins, Lipids, Carbohydrates.

BORON COMPOUNDS:

Nomenclature of Inorganic Boron Compounds (*Pure & Appl. Chem.*, Vol. 30, Nos. 3-4, 1972, pp. 681-710).

CALORIMETRY

See: Thermodynamics.

CARBOHYDRATES

Carbohydrates Nomenclature (Tentative Nomenclature Appendix No. 7, September 1970).

CARBON

International cooperation on characterization and terminology of carbon and graphite. (*Pure & Appl. Chem.*, Vol. 51, No. 7, 1979, pp. 1561-1574).

CAROTENOIDS

Nomenclature of Carotenoids (*Pure & Appl. Chem.*, Vol. 41, No. 3, 1975, pp. 405-431).

CATALYSIS

Heterogenous Catalysis—see: Surface Chemistry.

CHEMICAL ANALYSIS

Recommendations for presentation of data on compleximetric indicators. 1. General (*Pure & Appl. Chem.*, Vol. 51, No. 6, 1979, pp. 1357-1336).

Colorimetric and fluorimetric determination of aldehydes and ketones (*Pure & Appl. Chem.*, Vol. 51, No. 8, 1979, pp. 1803-1814).

Colorimetric and Fluorimetric determination of steroids (*Pure & Appl. Chem.*, Vol. 51, No. 10, 1979, pp. 2157)

Recommendations for Publication of Papers on Precipitation Methods of Gravimetric Analysis (Provisional Nomenclature Appendix No. 69, December 1977, *Info. Bull.*).

Recommended Nomenclature for Automatic Analysis (*Pure & Appl. Chem.*, Vol. 21, No. 4, 1970, pp. 527-531).

See: Spectrochemical Analysis, Electrochemistry (for Electroanalytical Techniques), Microchemical Analysis, Equilibria.

CHROMATOGRAPHY

Recommendations on Nomenclature for Chromatography (*Pure & Appl. Chem.*, Vol. 37, No. 4, 1974, pp. 445-462).

CLINICAL CHEMISTRY

Quantities and Units in Clinical Chemistry (*Pure & Appl. Chem.*, Vol. 51, No. 12, 1979, p. 2451-2480).

List of Quantities in Clinical Chemistry (*Pure & Appl. Chem.*, Vol. 51, No. 12, 1979, p. 2481-2502).

Characteristics and Attributes of Instruments Intended for Automated Analysis in Clinical Chemistry (*Info. Bull.*, No. 3, 1978).

Quantities and Units in Clinical Chemistry - Optical Spectroscopy: Part 1 (Theoretical Outline and General Quantities) (*Info. Bull.*, No. 3, 1978).

COLLOIDS

See: Surface Chemistry, Micelles.

CORRINOIDS

Nomenclature of Corrinoids (*Pure & Appl. Chem.*, Vol. 48, No. 4, 1976, pp. 495-502).

CYCLITOLS

Nomenclature of Cyclitols (*Pure & Appl. Chem.*, Vol. 37, Nos. 1-2 1974, pp. 283-297).

ELECTROCHEMISTRY

Recommended terms, symbols, and definitions for electroanalytical chemistry. (*Pure & Appl. Chem.*, Vol. 51, No. 5, 1979, pp. 1159).

Selectivity coefficients of ion-selective electrodes. (*Pure & Appl. Chem.*, Vol. 51, No. 9, 1979, pp. 1913-1980).

Recommendations for Publishing Manuscripts on Ion-Selective Electrodes (*Info. Bull.* No. 1, 1978, pp. 69-74).

Standard Potential of the Silver-Silver Chloride Electrode (*Pure & Appl. Chem.*, No. 11/12, 1978, p. 1701).

Proposed Nomenclature for Transport Phenomena in Electrolytic Systems (Provisional Nomenclature Appendix No. 59, July 1977).

Electrode Reaction Orders, Transfer Coefficients and Rate Constants—Amplification of Definitions and Recommendations for Publication of Parameters (Provisional Nomenclature Appendix No. 60, July 1977).

Classification and Nomenclature of Electroanalytical Techniques (*Pure & Appl. Chem.*, Vol. 45, No. 2, 1976, pp. 81-97).

Status of Faraday Constant as an Analytical Standard (*Pure & Appl. Chem.*, vol. 45, No. 2, 1976, pp. 125-130).

Recommendations for Sign Conventions and Plotting of Electrochemical Data (*Pure & Appl. Chem.*, Vol. 45, No. 2, 1976, pp. 131-134).

Recommendations for Nomenclature of Ion-Selective Electrodes (*Pure & Appl. Chem.*, Vol. 48, No. 1, 1976, pp. 127-132).

Electrochemical Nomenclature (*Pure & Appl. Chem.*, Vol. 37, No. 4, 1974, pp. 499-516).

ELECTRON SPECTROSCOPY

Nomenclature and Spectral Presentation in Electron Spectroscopy Resulting from Excitation by Photons (*Pure & Appl. Chem.*, Vol. 45, Nos. 3-4, 1976, pp. 221-224).

ELEMENTS

Recommendations for the Name of Elements of Atomic Numbers Greater than 100 (*Pure & Appl. Chem.*, Vol. 51, No. 2, 1979, pp. 381).

Atomic Weights of the Elements, 1977 (*Pure & Appl. Chem.*, Vol. 51., No. 2, 1979).

ENZYMES

Nomenclature of Multiple Forms of Enzymes (Provisional Nomenclature Appendix No. 68, December 1977).

Enzyme Nomenclature (Book, 443, pages; casebound and soft-cover editions Elsevier, POB, 1270, Amsterdam, Netherlands).

EQUILIBRIA

Recommendations for presentation of data on compleximetric indicators 1. General. (*Pure & Appl. Chem.*, Vol. 51, No. 6, 1979, pp. 1357-1366).

Proposed Symbols for Metal Complex Mixed Ligand Equilibria (*Info. Bull.*, No. 3, 1978).

FLUID FLOW

Selected definitions, terminology and symbols for rheological properties. (Manual of Symbols and terminology for physicochemical quantities and units. Appendix II.) (*Pure & Appl. Chem.*, Vol. 51, No. 5, 1979, pp. 1213).

FOOD

A survey of methods for the determination of non-volatile nitrosamines in food. (*Pure & Appl. Chem.*, Vol. 51, No. 6, 1979 pp. 1367-1374).

See: Lipids, Carbohydrates, Amino Acids.

INFRARED SPECTRA

Recommendations for the Presentation of Infrared Absorption Spectra in Data Collections—A. Condensed Phases (*Pure & Appl. Chem.*, 50, 1978, pp. 231-236).

Recommendations for the presentation of Infrared Absorption Spectra in Data Collections (Provisional Nomenclature Appendix No. 50, September 1976).

See: Molecular Force Constants.

INORGANIC CHEMISTRY

Nomenclature of Inorganic Chemistry—Isotopically modified compounds. (*Pure & Appl. Chem.*, Vol. 51, No. 9 (1979) pp. 1981-1994).

Nomenclature of Inorganic Chemistry (*Pure & Appl. Chem.*, Vol. 28, No. 1 1971, pp. 1-110). Also published as a book popularly known as the "Red Book" by Pergamon Press, Oxford.

See: Nitrogen, Carbon, Solution Chemistry, Atomic Weights, Boron Compounds, Equilibria.

INSECTICIDES

Definitions and guidelines for describing and evaluating pesticide residues. (*Pure & Appl. Chem.*, Vol. 51, No. 3, 1979, pp. 677).

Toxaphene (camphechlor). A spectral report. (*Pure & Appl. Chem.*, Vol. 51, No. 7, 1979, pp. 1583-1602).

Status report on Clean-up and determination procedures. (*Pure & Appl. Chem.*, Vol. 51, No. 7, 1979, pp. 1603-1615).

Recommended methods for the determination of residues of pyrethrins and piperonyl butoxide. (*Pure & Appl. Chem.*, Vol. 51, No. 7, 1979, pp. 1615-1623).

ION EXCHANGE

Recommendations on Ion Exchange Nomenclature (*Pure & Appl. Chem.*, Vol. 29, No. 4, 1972, pp. 617-624).

LIPIDS

Nomenclature of Lipids (Provisional Nomenclature Appendix No. 67, December, 1977).

LIQUID-LIQUID DISTRIBUTION

Proposed Terminology and Symbol for the Transfer of Solutes from One Solvent to Another (*Pure & Appl. Chem.*, No. 6, 1978, p. 587).

Recommended Nomenclature for Liquid Liquid Distribution (Solvent Extraction): revised 1975 (Provisional Nomenclature Appendix No. 63, July 1977).

MACROMOLECULES

See: Polymers, Proteins.

MASS SPECTROMETRY

Recommendations for Symbolism and Nomenclature for Mass Spectroscopy (*Pure & Appl. Chem.*, 50, 1978, pp. 65-73).

Recommendations for Nomenclature of Mass Spectrometry (*Pure & Appl. Chem.*, Vol. 37, No. 4, 1974, pp. 469-480).

MICELLES

Reporting experimental data dealing with critical micellization concentrations (c.m.c's) of aqueous surfactant systems. (*Pure & Appl. Chem.*, Vol. 51, No. 5. 1979, pp. 1083).

MICROCHEMICAL ANALYSIS

Terminology for Scales of Working in Microchemical Analysis (*Pure & Appl. Chem.*, Vol. 51, No. 1, 1979 p. 43).

General Aspects of Trace Analytical Methods.
II. Standard Reference Materials for Trace Analysis (*Pure & Appl. Chem.*, No. 11/12, 1978, pp. 1531-1700).
III. Contamination in Trace Analysis (*Pure & Appl. Chem.*, No. 11/12, 1978, p. 1519).

Recommendations on Nomenclature of Scales of Working in Analysis (Provisional Nomenclature Appendix No. 18, February 1972).

MOLECULAR FORCE CONSTANTS

Definition and Symbolism of Molecular Force Constants (*Pure & Appl. Chem.*, No. 11/12, 1978, p. 1707).

MOSSBAUER SPECTRA

Nomenclature and Conventions for Reporting Mossbauer Spectroscopic Data (*Pure & Appl. Chem.*, Vol. 45, Nos. 3-4, 1976, pp. 211-216).

NITROGEN

Nomenclature of Hydrides of Nitrogen and Derived Cations, Anions and Ligands (*Info. Bull.*, No. 2, 1978).

NMR DATA

Recommendations for the Presentation of NMR Data for Publication in Chemical Journals—B. Conventions Relating to Spectra from Nuclei Other than Protons (*Pure & Appl. Chem.*, Vol. 45, Nos. 3-4, 1976, pp. 217-219).

Recommendations for the Presentation of NMR Data for Publication in Chemical Journals—A. Conventions Relating to Proton Spectra (*Pure & Appl. Chem.*, Vol. 29, No. 4, 1972, pp. 625-628).

NUCLEAR CHEMISTRY

Radioactive ^{63}Ni in biological research. (*Pure & Appl. Chem.*, Vol. 51, No. 6, 1979, pp. 1375-1389).

Recommendations on Nomenclature for Nuclear Chemistry (Provisional Nomenclature Appendix No. 25, June 1972).

Reference materials for trace analysis by radioanalytical methods. (*Pure & Appl. Chem.*, Vol. 51, No. 5, 1979).

Procedure for measurement of 14-MeV neutron fluxes from accelerators for activation analysis. (*Pure & Appl. Chem.*, Vol. 49, No. 3, 1977).

NUCLEIC ACIDS

Abbreviations and Symbols for Nucleic Acids, Polynucleotides and their Constituents (*Pure & Appl. Chem.*, Vol. 40, No. 3, 1974, pp. 277-290).

ORGANIC CHEMISTRY

Nomenclature of Organic Chemistry (a 550 page hardcover volume, 1979, available from Pergamon Press, Oxford).
Section A: Hydrocarbons.
Section B: Fundamental Heterocyclic Systems.
Section C: Characteristic Groups containing carbon, hydrogen, oxygen, nitrogen, halogen, sulfur, selenium and tellurium.
Section D: Organic Compounds containing elements that are not exclusively carbon, hydrogen, oxygen, nitrogen, halogen, sulfur, selenium and tellurium.
Section E: Stereochemistry
Section F: General Principles for the naming of natural products and related compounds.
Section H: Isotopically modified compounds.

Revision of the extended Hantzsch-Widman System of Nomenclature for Heteromonocycles (*Pure & Appl. Chem.*, Vol. 51, No. 9, 1979, pp. 1995-2003).

Nomenclature of Tetrapyrroles (*Pure & Appl. Chem.*, Vol. 51, No. 11, 1979, pp. 2251-2304).

See: Physical Organic Chemistry.

PH

Recommended Reference Materials for Realization of Physiochemical Properties: Potentiometric Ion Activities (*Pure & Appl. Chem.*, No. 11/12, 1978, p. 1485).

PHOSPHORUS COMPOUNDS

Nomenclature of Phosphorus-containing Compounds of Biochemical Importance. (Provisional Nomenclature Appendix No. 66, December 1977).

PHYSICAL ORGANIC CHEMISTRY

Glossary of terms used in physical organic chemistry. (*Pure & Appl. Chem.*, Vol. 51, No. 8, 1979, pp. 1725-1802).

PHYSICOCHEMICAL QUANTITIES AND UNITS

Manual of Symbols and Terminology for Physicochemical Quantities and Units. (*Pure & Appl. Chem.*, Vol. 51, No. 1. 1979 pp. 1). (Also available as soft-cover booklet from Pergamon Press, Oxford.)

See: pH, Spectrochemical Analysis, Reference Materials.

POLYMERS

Sterochemical definitions and notations relating to polymers. (*Pure & Appl. Chem.*, Vol. 48, No. 3, 1976, pp. 373-385).

List of Standard Abbreviations (Symbols) for Synthetic Polymers and Polymer Materials (*Pure & Appl. Chem.*, Vol. 40, No. 3, 1974, pp. 473-476).

Basic Definitions of Terms Relating to Polymers (*Pure & Appl. Chem.*, Vol. 40, No. 3, 1974, pp. 477-491).

PRESENTATION OF DATA

See: NMR, Raman Spectra, Thermodynamics, Mossbauer Spectra, Electron Spectroscopy, Infrared Spectra, Quantum Chemistry, Micelles, Chromatography, Chemical Analysis, Spectrochemical Analysis, Electrochemistry, Equilibria, Surface Analysis.

PROTEINS & PEPTIDES

Nomenclature of Peptide Hormones (Provisional Nomenclature Appendix No. 48, September 1975).

Abbreviations and Symbols for the Description of Conformation of Polypeptide Chains (*Pure & Appl. Chem.*, Vol. 40, No. 3, 1974, pp. 291-308).

Abbreviated Nomenclature of Synthetic Polypeptides (Polymerized Amino Acids) (*Pure & Appl. Chem.*, Vol. 33, Nos. 2-3, 1973, pp. 437-444).

Nomenclature of Iron-Sulfur Proteins (Provisional Nomenclature Appendix No. 32, August, 1973).

A One-letter Notation for Amino Acid Sequences (*Pure & Appl. Chem.*, Vol. 31, No. 4, 1972, pp. 639-645).

Rules for Naming Synthetic Modifications of Natural Peptides (*Pure & Appl. Chem.*, Vol. 31, No. 4, 1972, pp. 647-653).

QUANTUM CHEMISTRY

Expression of Results in Quantum Chemistry (*Pure & Appl. Chem.*, Vol. 50, 1978, pp. 75-79).

QUINONES

Nomenclature of Quinones with Isoprenoid Side-Chains (*Pure & Appl. Chem.*, Vol. 38, No. 3, 1974, pp. 439-447).

RADIATION

Recommended Names and Symbols for Light and Related Electromagnetic Radiation (Manual of Symbols and Terminology for Physicochemical Quantities and Units, 1979, Section 2.8, Pergamon Press, Oxford).

RAMAN SPECTRA

Recommendations for the Presentation of Raman Spectra for Cataloging and Documentation in Permanent Data Collections (*Pure & Appl. Chem.*, Vol. 36, Nos. 1-2, 1973, 275-278).

REFERENCE MATERIALS

Recommended Reference Materials for the Realization of Physicochemical Properties:
- **General Introduction (*Pure & Appl. Chem.*, Vol. 40, 1974, pp. 391).**
- **Enthalpy (*Pure & Appl. Chem.*, Vol. 40, 1974, pp. 399).**
- **Optical Rotation (*Pure & Appl. Chem.*, Vol. 40, 1974, pp. 451).**
- **Surface Tension (*Pure & Appl. Chem.*, Vol. 40, 1974, pp. 457).**
- **Optical Refraction (*Pure & Appl. Chem.*, Vol. 40, 1974, pp. 463).**
- **Molecular Weight (*Pure & Appl. Chem.*, Vol. 48, 1976, pp. 241).**
- **Absorbance and Wavelength (*Pure & Appl. Chem.*, Vol. 49, 1977, pp. 661).**
- **Pressure-volume-temperature relationships (*Pure & Appl. Chem.*, Vol. 49, 1977, pp. 1437).**
- **Reflectance (*Pure & Appl. Chem.*, Vol. 50, 1978, pp. 1477).**
- **Potentiometric ion activities (*Pure & Appl. Chem.*, Vol. 50, 1978, pp. 1485).**
- **Testing Distillation Columns (*Pure & Appl. Chem.*, Vol. 51, 1979, No. 12).**

See: Nuclear Chemistry.

SOLUTION CHEMISTRY

Conditional diffusion coefficients of ions and molecules in solution. An appraisal of the conditions and methods of measurement (*Pure & Appl. Chem.*, Vol. 51, No. 7, pp. 1575-1582, 1979).

Recommendations on the Usage of the Terms "Equivalent" and "Normal" (*Pure & Appl. Chem.*, Vol. 50, 1978, pp. 325-338).

Recommendations on Nomenclature for Contamination Phenomena in Precipitation from Aqueous Solutions (*Pure & Appl. Chem.*, Vol. 37, No. 4, 1974, pp. 463-468).

See: Liquid-Liquid distribution
Electrochemistry (For Transport Phenomena).

SOLVENT EXTRACTION

See: Liquid-Liquid Distribution.

SPECTROCHEMICAL ANALYSIS

Recommendations for Publication of Papers on Methods of Molecular Absorption Spectrophotometry in Solution between 200 and 800 nm (*Pure & Appl. Chem.*, Vol. 50, 1978, pp. 237-242).

Recommended Reference Materials for Realization of Physiochemical Properties; Reflectance (*Pure & Appl. Chem.*, No. 11/12, 1978, p. 1477).

Nomenclature, Symbols, Units and Their Usage in Spectrochemical analysis—IV. X-Ray Emission Spectroscopy (Provisional Nomenclature Appendix No. 54, December, 1976).

Nomenclature, Symbols, Units and Their Usage in Spectrochemical Analysis—II. Data Interpretation (*Pure & Appl. Chem.*, Vol. 45, No. 2, 1976, pp. 99-103).

Nomenclature, Symbols, Units and Their Usage in Spectrochemical Analysis—III. Analytical Flame Spectroscopy and Associated Non-Flame Procedures (*Pure & Appl. Chem.*, Vol. 45, No. 2, 1976, pp. 105-123).

Nomenclature, Symbols, Units and Their Usage in Spectrochemical Analysis—1. General Atomic Emission Spectroscopy (*Pure & Appl. Chem.*, Vol. 30, Nos. 3-4, 1972, pp. 651-679).

See: Infrared Spectra, Mass Spectrometry, Electron Spectroscopy, Raman Spectra, NMR, Reference materials, Chemical Analysis.

STEROIDS

Nomenclature of Steroids (*Pure & Appl. Chem.*, Vol. 31, Nos. 1-2, 1972 pp. 283-322).

See: Chemical Analysis

SURFACE CHEMISTRY

General aspects of trace analytical methods—IV. Recommendations for nomenclature, standard procedures and reporting of experimental data for surface analysis techniques (*Pure & Appl. Chem.*, Vol. 51, No. 11, 1979, pp. 2243-2250).

Definitions, Terminology and Symbols in Colloid and Surface Chemistry—II. Heterogeneous Catalysis (*Pure & Appl. Chem.*, Vol. 46, No. 1, 1976, pp. 71-90).

Definitions, Terminology and Symbols in Colloid and Surface Chemistry—I. (*Pure & Appl. Chem.*, Vol. 31, No. 4, 1972, pp. 577-638).

THERMODYNAMICS

Recommendations for Nomenclature of Thermal Analysis—II. DTA and TG Apparatus and Technique, III. DTA and TG Curves (Provisional Nomenclature Appendix No. 64, July, 1977).

Recommendations for Nomenclature of Thermal Analysis (*Pure & Appl. Chem.*, Vol. 37, No. 4, 1974, pp. 439-444).

A Guide to Procedures for the Publication of Thermodynamic Data (*Pure & Appl. Chem.*, Vol. 29, No. 1-3, 1972, pp. 395-408).

TOCOPHEROLS

Nomenclature of Tocopherols and Related Compounds (Provisional Nomenclature Appendix No. 47, September 1975).

VITAMINS

Nomenclature for Vitamin B-6 and Related Compounds (*Pure & Appl. Chem.*, Vol. 33, Nos. 2-3, 1973, pp. 445-452).

X-RAY SPECTROSCOPY

See: Spectrochemical Analysis.

ZEOLITES

Chemical nomenclature and formulation of compositions of synthetic and natural zeolites. (*Pure & Appl. Chem.*, Vol. 51, No. 5, 1979, pp. 1091).

ERRATA

Perkin I Transactions

1976, page 453: right-hand column, lines 25, 34, and 62, *delete* values of −1.3°, +7.7°, and +3.1° and *insert* −13°, +77° and +31° respectively; left-hand column, lines 3, 53, and 62: *delete* values of −2.7°, −11.2°, and −8.4°, and *insert* −27°, −112°, and −84°, respectively.

1979, page 777, right-hand column, line 35: *delete* ' 3,4-*trans* ' and *insert* ' 2,3-*trans* '.

page 2107, Summary to the paper and elsewhere: *delete* the names ' dipteryxine and odoratine ' and *insert* ' diptodoratin and diptodoratidin ' throughout.

page 2250, right-hand column, last line: *delete* ' 14.0 ' and *insert* ' 47.8 '.

page 2251, left-hand column, first line, *delete* ' 5.0 and 5.0 Hz ' and *insert* ' 14.0 Hz '; line 18, *delete* ' ($^3J_{HP}$ 36, $^4J_{HP}$ 2 Hz) ' and *insert* ' ($^3J_{HP}$ 55, $^3J_{HP} \approx$ 36 Hz) '; line 46, *delete* ' 128.12 ' and *insert* ' 89.2 '; line 57, *delete* ' 102.4 ' and *insert* ' 128.12 '.

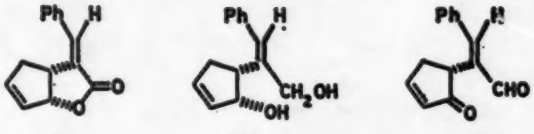
1980, page 237, authors' names: *delete* ' Sreemulu ' and *insert* ' Sreeramulu '.

page 477, left-hand column, first line: *delete* ' inner and outer ' and *insert* ' outer and inner '.

page 765, left-hand column, line 19, major side-heading: *delete* ' *s* ' from ' *Imidazoles* '.

page 945, right-hand column, line 38: *delete* ' 1 590 ' and *insert* ' 1 573 '; lines 43—45, *delete* ' τ 8.82 . . . (3 H, s, CO_2CH_3) ' and *insert* τ 8.74 (3 H, s, 18-H_3), 9.20 (3 H, s, 19-H_3), 7.08 (1 H, dd, *J* 2 and 4 Hz, 16β-H), and 2.0—2.74 (4 H, m, aromatic H).

page 1580, formulae (8), (9), and (10): *delete* structures and *replace* by the following:

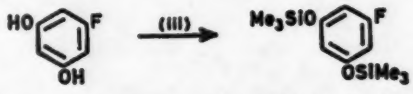


(8) (9) (10)

The n.m.r. evidence used to assign the structures (8), (9), and (10) is better in accord with the revised structures given above. Further information on these revised structures is given in *J. Chemical Research*, 1981, (*S*), 22.

page 1658, title of paper, after part-number *insert* superior ref. 1 to read ' Part 16 [1] '.

page 1659, Scheme 1: *insert* step (iii) as follows:



page 1661, left-hand column, line 44: *delete* ' anakardic acids ' and *insert* ' anacardic acids '; right-hand column, line 27, *delete* ' R. N. Emmanuel ' and *insert* ' Aldrich Chemical Co. Ltd.'

page 1664, left-hand column, line 21, after ' acid ' *insert* ' (Table 3) '.

page 1804, left-hand column, formulae (1)—(8) and right-hand column, formula (9), stereochemistry of 6-H and 11-H to be *inverted* (full wedges rather than dotted bonds at these positions).

page 1806, left-hand column, line 17: *delete* ' 6a*S*,11a*S* ' and *insert* ' 6a*R*,11a*R* '; right-hand column, *delete* asterisked footnote.